Appendix A

Chemical-specific TRI Release and Other Waste Management Data, 1988, 1995 and 1998-2000



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries)

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
71751-41-2	*	Abamectin	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	3	1	250	0	0	251	0	251
			980 98n	No reports	1	250	0	0	251	0	251
			990	3	1	250	0	0	251	0	251
			99n	No reports							
			000	3 No. 11-11-11-11-11-11-11-11-11-11-11-11-11-	20	15	0	0	35	0	35
30560-19-1	*	Acephate	00n 88	No reports NR	NR	NR	NR	NR	NR	NR	NR
30300 17 1		recpilate	95	5	2,250	0	0	0	2,250	1,000	3,250
			98o	7	1,775	0	0	0	1,775	0	1,775
			98n	No reports	(15	0	0	0	(15	0	(15
			99o 99n	7 No reports	645	0	0	0	645	0	645
			00o	5	958	0	0	0	958	7,200	8,158
			00n	1	1	0	0	0	1	0	1
75-07-0	*,**	Acetaldehyde	88	67	6,951,807	98,236	2,219,105	194,958	9,464,106	24,930	9,489,036
			95 98o	238 272	13,435,389 12,515,193	227,200 192,756	605,886 412,152	155,320 21,562	14,423,795 13,141,663	1,099 5,909	14,424,894 13,147,572
			98n	5	2,233	0	112,132	0	2,233	7	2,240
			99o	279	12,055,366	228,545	754,277	20,589	13,058,777	4,223	13,063,000
			99n	5	697	1	0	0	698	179	877
			00o 00n	290 7	12,374,227 2,222	195,009 5	1,079,397	22,584 0	13,671,217 2,227	1,263 2,519	13,672,480 4,746
60-35-5	**	Acetamide	88	1	0	0	0	0	0	250	250
			95	5	8	0	920,000	0	920,008	0	920,008
			980	9	106	1	2,157,694	0	2,157,801	0	2,157,801
			98n 99o	3 10	63 107	0	0 2 452 722	25,474 0	25,537	10 0	25,547
			990 99n	2	51	0	2,452,733	0	2,452,841 51	2	2,452,841 53
			00o	10	153	2	2,977,410	0	2,977,565	0	2,977,565
			00n	1	6	0	0	0	6	0	6
75-05-8		Acetonitrile	88	67	2,194,739	42,223	16,739,010	1,790	18,977,762	416,333	19,394,095
			95 98o	89 110	1,038,942 1,029,234	7,324 28,862	30,336,181 20,733,190	12 33	31,382,459 21,791,319	10,971 35,073	31,393,430 21,826,392
			98n	22	4,406	0	1,240,903	0	1,245,309	29,981	1,275,290
			99o	111	877,756	14,031	19,487,584	223	20,379,594	658,159	21,037,753
			99n	23	4,907	16.522	49,874	0	54,782	53,814	108,596
			00o 00n	110 19	731,285 2,016	16,533 0	22,318,983 217,251	592 0	23,067,393 219,267	14,924 49,287	23,082,317 268,554
98-86-2	*	Acetophenone	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	39	205,888	971	629,201	3,369	839,429	19,427	858,856
			980	46	138,515	655	732,358	0	871,528	49,744	921,272
			98n 99o	6 43	33,106 178,003	0 699	1,649 627,563	0	34,755 806,265	0 35,156	34,755 841,421
			990 99n	5	178,003	1	62,265	0	62,271	33,136	62,275
			00o	48	153,334	441	580,000	266	734,041	33,567	767,608
			00n	6	2	0	138,192	0	138,194	0	138,194

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries)

		Recy	cled	Energy	Recovery	Т	reated			
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
* Abamectin	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95 08a	$0 \\ 0$	0	0	0	6,425	10,152	29	16,606	$0 \\ 0$
	980 98n	No reports	0	0	U	6,230	4,165	28	10,423	U
	99o	0	0	0	0	4,918	3,589	23	8,530	0
	99n	No reports								
	00o	0	0	0	0	3,341	1,848	90	5,279	0
* Acenhate	00n	No reports	NIA	NT A	NIA	NIA	NT A	NIA	NIA	NT A
* Acephate	88 95	NA 10	NA 0	NA 0	NA 0	NA 183,000	NA 15,728	NA 1,409	NA 200,147	NA 0
	98o	90	0	0	0	9,800	12,683	2,186	24,759	0
	98n	No reports				ĺ	ŕ	ŕ		
	990	70	0	0	0	7,500	17,922	426	25,918	0
	99n 00o	No reports 130	0	0	0	14,300	17,797	514	32,741	0
	000 00n	0	0	0	0	14,300	60	1	14,224	0
*,** Acetaldehyde	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	10,000	32,190	9,239,285	358,459	14,510,964	1,755,026	14,441,699	40,347,623	1,681
	98o	14,000	694	10,275,584	266,784	17,025,381	1,672,903	13,217,235	42,472,581	1,163
	98n 99o	0 17,183	1 460	14 644 927	12,964,868	166,000	1 421 259	2,281	13,133,194 52,556,929	0
	990 99n	0	1,460 0	14,644,837 130	245,738 0	23,143,970 256,700	1,431,358 0	13,072,383 875	257,705	125
	00o	15,148	70,161	27,063,609	341,937	26,081,588	1,916,385	13,683,014	69,171,842	569
	00n	0	0	130	0	449,719	916	4,596	455,361	0
** Acetamide	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95 08-	0	0	1,000	0	0	130	920,000	921,130	0
	980 98n	0	0	81,220 0	40,954 21,133	2 90,561	362 0	2,157,761 25,547	2,280,299 137,241	0
	990	0	0	80,637	44,923	2	575	2,452,836	2,578,973	0
	99n	0	0	0	0	166,642	0	53	166,695	0
	00o	0	0	83,297	42,385	1	2,766	2,978,054	3,106,503	0
A	00n	0	0	0	0	21,717	0	6	21,723	0
Acetonitrile	88 95	NA 3,309,962	NA 2,071,150	NA 23,162,787	NA 4,704,330	NA 11,104,608	NA 5,742,679	NA 31,934,516	NA 82,030,032	NA 1,073
	98o	12,941,704	1,880,831	20,414,930	7,032,353	19,270,706	7,630,788	22,923,308	92,094,620	1,073
	98n	198,874	0	5,904	4,526,522	1,973,227	371,049	1,275,760	8,351,336	0
	99o	12,141,069	2,000,134	41,499,091	7,788,191	20,402,846	8,480,280	21,189,784	113,501,395	64
	99n	515,017	0	34,700	5,257,192	2,844,093	93,449	59,490	8,803,941	10
	00o	11,489,723	1,952,069	30,128,360	8,379,115	20,172,150	6,972,959	23,128,668	102,223,044	390
* Acetophenone	00n 88	68,705 NA	0 NA	37,089 NA	3,862,156 NA	3,050,829 NA	38,133 NA	268,009 NA	7,324,921 NA	0 NA
rectophenone	95	920,000	9,710	24,949,642	1,171,212	1,313,510	185,062	886,541	29,435,677	517
	98o	0	3,448	32,071,882	1,355,425	719,096	161,672	929,213	35,240,736	0
	98n	0	0	0	59,772	137,644	0	34,752	232,168	0
	99o	0	3,683	33,367,740	1,435,519	866,050	178,690	858,798	36,710,480	5
	99n	0	0 14 741	0 30,180,564	10 888 162	95,167	128 185	62,048 805,533	157,215	0 0
	00o 00n	0	14,741 0	30,180,564 0	10,888,162 20,103	944,571 78,627	128,185 809	805,533 138,304	42,961,756 237,843	0
	0011	U	U	U	20,103	70,027	009	130,304	437,043	<u> </u>

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

·							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
53-96-3	**	2-Acetylamino- fluorene	88 95 980	No reports No reports No reports				0.500	0.610		0.045
			98n 990 99n	No reports 4	110 139	0	0	8,500 38,197	8,610 38,337	1,205 20,648	9,815 58,985
			00o 00n	No reports 4	270	0	5	12,690	12,965	462	13,427
62476-59-9	*	Acifluorfen,	88	NR	NR	NR	NR	NR	NR	NR	NR
		sodium salt	95	4	60	5	0	5	70	0	70
			980 98n	4 No reports	476	2,193	0	17	2,686	421,514	424,200
			99o 99n	4 No reports	315	4,757	0	0	5,072	222,680	227,752
			00o 00n	4 No reports	332	5,811	0	0	6,143	225,664	231,807
107-02-8	*	Acrolein	88	12	33,652	0	68,950	500	103,102	0	103,102
			95	21	71,302	4	83,465	0	154,771	0	154,771
			980	29	184,134	270	95,900	1,351	281,655	665	282,320
			98n 990 99n	No reports 29 No reports	204,777	255	170,950	429	376,411	139	376,550
			000 00n	30 No reports	208,108	643	201,020	404	410,175	410	410,585
79-06-1	*,**	Acrylamide	88	59	26,019	3,124	2,198,000	756	2,227,899	97,582	2,325,481
		•	95	82	19,083	1,801	6,279,626	235	6,300,745	3,083	6,303,828
			98o	77	23,343	2,272	6,333,564	0	6,359,179	6,789	6,365,968
			98n	7	129	0	0	0	129	172	301
			990	80	22,458	369	7,510,853	22	7,533,702	2,224	7,535,926
			99n 00o	10 80	2,416 14,780	1 160	0 8,639,361	6,267 4	8,684 8,654,305	3,920 10,723	12,604 8,665,028
			000 00n	6	14,780	0	0,039,301	0	0,034,303	10,723	0,005,028
79-10-7		Acrylic acid	88	158	800,046	16,646	22,262,010	15,950	23,094,652	134,139	23,228,791
			95	189	528,058	2,648	7,840,000	47	8,370,753	45,395	8,416,148
			98o	195	322,224	6,973	4,499,600	79	4,828,876	80,461	4,909,337
			98n	14	368	0	44	48,617	49,029	5,989	55,018
			990	199	366,380	6,734	2,630,949	1,030	3,005,093	219,423	3,224,516
			99n 00o	11 200	158 367,226	6,074	0 836,946	0 1,231	159 1,211,477	688 121,382	847 1,332,859
			000 00n	13	115	0,074	26,747	0	26,862	320	27,182
107-13-1	*,**	Acrylonitrile	88	113	4,796,161	6,531	4,562,713	2,150	9,367,555	151,450	9,519,005
		•	95	105	1,537,068	7,137	5,193,028	618	6,737,851	4,917	6,742,768
			98o	105	1,147,444	1,100	4,005,290	321	5,154,155	8,156	5,162,311
			98n	11	1,264	0	0	0	1,264	916	2,180
			990	104	984,266	1,172	4,462,492	560	5,448,490	84,849	5,533,339
			99n	13	1,015	741	2 052 508	23,244	24,260	13,569	37,829 5,225,210
			00o	104 12	950,435 714	741 255	3,952,598	99,097 16,301	5,002,871	322,348	5,325,219
			00n	12	/14	255	5,192	16,301	22,462	1,370	23,832

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

Chemical Year	Production-related Waste Managed Pounds NA 10,151 158,883 69,649 NA	Non-Production-related Waste Managed Pounds NA 0
fluorene 95 No reports 980 No reports 980 0 0 0 0 0 310 41 9,800 990 No reports 990 0 0 0 0 0 99,902 0 58,981 13,425 990 0 0 0 0 0 0 55,443 781 13,425 13,425 980 0 0 0 0 0 0 0 13,105 3,237 423,965 98n No reports 990 0 0 0 0 0 0 13,105 3,237 423,965 98n No reports 990 0 0 0 0 0 0 45,498 1,891 227,507 990 No reports 990 No reports 990 No reports 980 0 0 0 0 0 5,929 2,304 231,538 8 NA	10,151 158,883 69,649 NA	0
No reports 980	158,883 69,649 NA	
98n	158,883 69,649 NA	
990	158,883 69,649 NA	
99n	69,649 NA	0
* Acrolein	69,649 NA	
* Acrolein	NA	
sodium salt 95 0 0 0 0 0 0 600 1,272 655 980 0 0 0 0 0 0 13,105 3,237 423,965 98n No reports 990 0 0 0 0 0 0 45,498 1,891 227,507 99n No reports 000 0 0 0 0 5,929 2,304 231,538 00n No reports 980 0 0 3,752,847 43,323 5,168,260 11,361 154,579 980 0 0 3,712,551 38,933 16,430,612 12 278,469 98n No reports 990 0 0 4,878,507 176,954 8,581,456 211 365,014 99n No reports 000 0 0 11,790,188 67,678 3,422,820 140,068 394,272 00n No reports 980 162 0 90,200 6,627 160,009 311,267 6,363,848 98n 0 0 0 228,142 62,489 0 291 990 3 0 94,233 9,777 134,468 234,039 7,536,297 99n 0 0 0 0 82,000 18,230 190,646 180,382 8,656,116 00n 0 0 504 782 109,415 598 11		0
980 0 0 0 0 0 45,498 1,891 227,507 990 No reports 000 0 0 0 0 5,929 2,304 231,538 * Acrolein 88 NA NA NA NA NA NA NA NA NA P95 4,800 0 0 3,712,551 38,933 16,430,612 12 278,469 990 0 0 0 4,878,507 176,954 8,581,456 211 365,014 990 No reports 000 No reports **,***Acrylamide 88 NA	1947	NA
98n No reports 990 0 0 0 0 0 0 45,498 1,891 227,507 99n No reports 000 0 0 0 0 0 5,929 2,304 231,538 * Acrolein 88 NA		0
990	440,307	0
No reports No reports No reports No reports	274,896	0
**Acrolein		
* Acrolein	239,771	5
95	271	27.1
980		NA 85
98n No reports 990 0 0 4,878,507 176,954 8,581,456 211 365,014 365		194
990 0 0 4,878,507 176,954 8,581,456 211 365,014 99n No reports 000 0 0 11,790,188 67,678 3,422,820 140,068 394,272 *,**Acrylamide 88 NA 95 4,037 0 820 43,304 187,170 210,284 6,305,564 980 162 0 90,200 6,627 160,009 311,267 6,363,848 98n 0 0 0 0 228,142 62,489 0 291 990 3 0 94,233 9,777 134,468 234,039 7,536,297 99n 0 0 0 51,885 148,301 45,117 10,310 000 27 0 82,000 18,230 190,646 180,382 8,656,116 00n 0 0 504 782 109,415 598 1	20,400,377	1)4
000 00n 0 0n 0 11,790,188 67,678 3,422,820 140,068 394,272 *,**Acrylamide 88 NA	14,002,142	16
***** Acrylamide 88 NA		
*,**Acrylamide 88 NA	15,815,026	306
95	NIA	NIA
980 162 0 90,200 6,627 160,009 311,267 6,363,848 98n 0 0 0 228,142 62,489 0 291 990 3 0 94,233 9,777 134,468 234,039 7,536,297 99n 0 0 0 51,885 148,301 45,117 10,310 000 27 0 82,000 18,230 190,646 180,382 8,656,116 00n 0 504 782 109,415 598 1		NA 3,980
98n 0 0 0 228,142 62,489 0 291 990 3 0 94,233 9,777 134,468 234,039 7,536,297 99n 0 0 0 51,885 148,301 45,117 10,310 000 27 0 82,000 18,230 190,646 180,382 8,656,116 00n 0 504 782 109,415 598 1		49,723
990 3 0 94,233 9,777 134,468 234,039 7,536,297 99n 0 0 0 51,885 148,301 45,117 10,310 000 27 0 82,000 18,230 190,646 180,382 8,656,116 00n 0 0 504 782 109,415 598 1		0
00o 27 0 82,000 18,230 190,646 180,382 8,656,116 00n 0 0 504 782 109,415 598 1		0
00n 0 0 504 782 109,415 598 1		0
		7,000
Acrylic acid 88 NA NA NA NA NA NA NA NA NA	/	0 NA
95 3,339,863 34,800 26,544,419 5,033,613 26,801,813 471,136 8,407,802		3,401
980 4,863,156 0 31,350,455 5,916,104 24,168,363 2,077,125 4,895,656		6,993
98n 0 101,540 1,605 659,051 452,945 9,417 63,584		0
990 4,680,911 120 20,851,955 6,323,120 32,320,082 1,201,617 3,235,863	68,613,668	111,051
99n 0 52,100 1,323 37,623 1,082,263 89 697		0
000 4,228,023 720 28,230,407 5,551,534 27,945,859 2,240,797 1,373,081 000 0 0 998 85,821 830,093 60 28,460		1,123 0
*,**Acrylonitrile 88 NA NA NA NA NA NA NA NA		NA
95 12,408,043 69,716 3,326,652 666,245 10,647,695 1,131,550 6,775,847		8,105
980 12,827,695 190 4,841,082 158,067 10,880,197 872,541 5,130,164	34,709,936	2,373
98n 0 0 0 24,762 433,873 1,519,681 2,043		0
990 12,435,645 0 3,909,625 211,021 11,415,674 1,743,040 8,483,834		81,963
99n 0 0 0 52,049 766,904 16,283 36,383 000 9,094,814 0 6,323,083 275,532 13,620,712 733,083 4,874,125		100.038
000 9,094,814 0 6,323,083 275,532 13,620,712 733,083 4,874,125 00n 0 0 88,884 47,468 623,437 64,837 23,366	34,921,349	109,038

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(000000							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
15972-60-8	*	Alachlor	88 95 980 98n 990 99n	NR 3 2 3 2 3	NR 756 1,510 54 755 42	NR 280 220 0 390 0	NR 0 0 0 0 0	NR 0 0 0 0	NR 1,036 1,730 54 1,145 42	NR 2,940 9,100 613 1,270 655	NR 3,976 10,830 667 2,415 697
116-06-3	*	Aldicarb	00o 00n 88	3 3 NR	1,362 11 NR	7 0 NR	0 0 NR	0 0 NR	1,369 11 NR	5,000 167 NR	6,369 178 NR
110 00 3		ridicaro	95 980 98n 990 99n 000	2 3 2 3 3 3	3,477 154 1 171 6 185	0 0 0 0 0	0 0 0 0 0	6 15 0 256 0	3,483 169 1 427 6 190	0 0 0 0 0 156	3,483 169 1 427 162 190
309-00-2	*	Aldrin	00n 88 95 980 98n 990	No reports No reports No reports No reports No reports	307	7	0	22,000	22,314	3,308	25,622
		Not comparable to prior years***	99n 00o 00n	No reports	0.79	0.00	0.00	2,342.00	2,342.79	2.58	2,345.37
28057-48-9		d-trans-Allethrin	88 95 980 98n 990 99n 000 00n	NR 1 1 No reports 1 No reports 1 No reports	NR 0 0 0	NR 0 0 0	NR 0 0 0	NR 0 0 0	NR 0 0 0	NR 0 0 0	NR 0 0 0
107-18-6	*	Allyl alcohol	88 95 980 98n 990 99n 000 00n	NR 31 32 4 29 5 29 6	NR 168,141 262,353 111 263,169 520 379,112 34	NR 6,519 9,688 0 5,041 0 6,067	NR 298,801 424,120 39,734 595,114 4,832 519,712 6,906	NR 1,100 0 0 755 0 5	NR 474,561 696,161 39,845 864,079 5,352 904,896 6,940	NR 11,296 16 0 28 16,195 2	NR 485,857 696,177 39,845 864,107 21,547 904,898 6,945
107-11-9		Allylamine	88 95 980 98n 990 99n 000 00n	NR No reports 2 1 2 1 2 1	NR 951 0 1,040 0 1,060 0	NR 40 0 450 0 2,500 0	NR 0 0 0 0 0 0 0 0	NR 0 0 0 0 0 0 0 0	NR 991 0 1,490 0 3,560 0	NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NR 991 0 1,490 0 3,560

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	опшиец)		Recyc	eled	Energy l	Recovery	Т	reated	Quantity	Total	Non Bradua
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
*	Alachlor	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	5,481	120,000	217,179	3,930	346,590	30,000
		98o	0	0	0	0	17,300	181,800	10,830	209,930	0
		98n	0	0	0	0	64,944	120 100	183	65,127	0
		99o 99n	0	0	0	0	11,000 261,537	139,100	2,401 197	152,501 261,734	0
		9911 000	0	0	0	0	9,200	96,135	6,292	111,627	0
		00n	0	0	0	0	116,446	0	179	116,625	0
*	Aldicarb	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	0	580	20,011	3,472	24,063	0
		98o	0	0	0	0	502	40,611	149	41,262	10
		98n	0	0	0	0	16,633	0	1	16,634	0
		99o	0	0	0	0	376	19,953	166	20,495	0
		99n	0	0	0	0	170,879	0	162	171,041	0
		00o	0	0	0	0	471	28,513	180	29,164	0
*	Aldrin	00n 88	0 NA	0 NA	0 NA	0 NA	152,433 NA	11 NA	0 NA	152,444 NA	0 NA
	Aldilli	95	No reports	INA	INA	INA	INA	INA	INA	INA	INA
		98o	No reports								
		98n	0	0	0	1	77,986	110	26,045	104,142	0
		990	No reports				,		.,		
		99n	0	0	0	0	53,598	0	0	53,598	0
	Not comparable	00o	No reports								
	to prior years***	00n	0.00	0.00	0.00	0.00	82,504.75	283.00	2,345.32	85,133.07	0.00
	d-trans-Allethrin	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	0	0	0	0	0	0
		980 98n	0 No semests	0	0	0	0	0	0	0	0
		9811 990	No reports 0	0	0	0	0	0	0	0	0
		99n	No reports	U	U	U	0	Ü	U		0
		00o	0	0	0	0	0	0	0	0	0
		00n	No reports			_	_	-	_		
*	Allyl alcohol	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	189,517	0	1,531,138	363,377	1,414,321	422,499	486,288	4,407,140	131
		98o	248,764	0	1,413,165	1,168,713	1,157,533	173,575	653,664	4,815,414	0
		98n	0	0	0	61,206	76,299	0	39,841	177,346	0
		99o	340,364	0	1,844,591	1,028,462	924,753	133,150	814,620	5,085,940	750
		99n 00o	0 2,798,933	0	0	46,358	3,239,971	61,976	21,540	3,369,845	0
		000 00n	2,798,933	0	2,012,131 0	485,498 22,564	1,639,985 305,236	1,381,911 195	897,963 6,934	9,216,421 334,929	0
	Allylamine	88	NA	NA	NA	22,304 NA	303,230 NA	NA	0,934 NA	334,929 NA	NA
	1 111 y 101111111C	95	No reports	11/1	11/1	11/1	11/21	11/1	11/1	11/4	IVA
		98o	0	0	0	0	360	0	991	1,351	0
		98n	0	0	0	5	20	0	0	25	0
		99o	0	0	0	0	4,000	0	1,274	5,274	0
		99n	0	0	0	1	0	0	0	1	0
		00o	0	0	0	0	22,000	0	3,304	25,304	0
		00n	0	0	0	0	0	0	0	0	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
107-05-1		Allyl chloride	88 95 980 98n	20 21 24 2	149,369 52,698 70,809 91	430 95 5 0	250 0 0 0	200 481 2 0	150,249 53,274 70,816 91	747 13 860 864	150,996 53,287 71,676 955
			990 99n 000 00n	27 3 26 2	79,237 253 146,598 145	25 1 541 0	0 0 0 0	0 8,189 0 0	79,262 8,443 147,139 145	1,586 4,526 3,625 0	80,848 12,969 150,764 145
7429-90-5	*	Aluminum (fume or dust)	88 95 980 98n	357 332 327 17	3,681,998 1,978,660 1,307,699 109,949	91,518 36,979 3,868 0	250 250 0 5	3,177,625 1,872,773 1,907,917 3,752,538	6,951,391 3,888,662 3,219,484 3,862,492	14,482,254 6,457,722 6,908,644 41,326	21,433,645 10,346,384 10,128,128 3,903,818
1344-28-1		Aluminum oxide	990 99n 000 00n 88	338 11 346 9 DC	1,557,189 130,558 1,598,143 48,997 DC	5,003 0 4,798 0 DC	0 0 0 0 DC	1,676,195 4,283,907 5,882,152 6,032,960 DC	3,238,387 4,414,465 7,485,093 6,081,957 DC	13,478,584 18,368 8,037,720 2,570,523 DC	16,716,971 4,432,833 15,522,813 8,652,480 DC
1344-20-1		Attimitum oxide (fibrous forms)	95 980 98n 990 99n 000	61 56 10 51 12 58	133,416 26,772 35 111,845 338 137,990	2,805 750 0 756 0 558	0 0 0 0 0	593,000 31,405 15,572,355 23,736 30,727,558 124,750	729,221 58,927 15,572,390 136,337 30,727,896 263,298	4,499,941 2,947,504 47,030 2,839,676 347,172 3,386,488	5,229,162 3,006,431 15,619,420 2,976,013 31,075,068 3,649,786
20859-73-8	*	Aluminum phosphide	95 980 98n 990 99n 000	13 NR 2 2 No reports 2 2 1	281 NR 0 0 0	NR 0 0 0	8,449 NR 0 0 0	42,366,339 NR 0 0 0	42,375,069 NR 0 0 4 0	245,240 NR 0 0 0 153 0	42,620,309 NR 0 0 157 0
834-12-8	*	Ametryn	00n 88 95 980 98n	1 NR 5 5 No reports	0 NR 836 1,168	0 NR 83 51	0 NR 0 0	0 NR 5 0	0 NR 924 1,219	0 NR 250 0	0 NR 1,174 1,219
			990 99n 000 00n	4 No reports 4 No reports	1,460 1,310	16 12	0	0	1,476 1,322	0	1,476 1,322
117-79-3	**	2-Aminoanthra- quinone	88 95 980 98n 990 99n 000 00n	No reports							

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Rec	ycled	Energy R	ecovery	Т	reated	0	T-4-1	Nam Dandara
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
Allyl chloride	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	520,000	0	186,000	1,756	750,979	412,357	52,568	1,923,660	65
	98o	780,000	68,000	5,349,016	321,228	243,860	194,934	70,054	7,027,092	1
	98n	0	0	157.079	0	127,076	282	955	128,313	0 1,000
	990 99n	23,000	44,000	157,078 0	236,934	301,187 192,972	648,363 1,090	78,649 12,967	1,489,211 207,029	1,000
	99n 00o	650,000	82,000	5,335,210	226,011	3,837,075	192,839	205,611	10,528,746	45
	000 00n	030,000	0	3,333,210 0	220,011	72,424	536	145	73,105	0
* Aluminum	88	NA	NA	NA	NA	72,424 NA	NA	NA	73,103 NA	NA
(fume or dust)	95	15,378,165	24,327,521	0	164,604	15,628,491	332,192	8,219,058	64,050,031	690
(runic or dust)	98o	15,724,778	29,746,083	0	4,267	18,287,637	176,034	10,005,822	73,944,621	29,298
	98n	0	210,000	0	0	226,635	550	3,781,933	4,219,118	10,982
	99o	15,586,205	28,584,699	0	5,058	21,740,641	425,726	15,920,488	82,262,817	10
	99n	0	0	0	0	289,500	127,156	4,320,550	4,737,206	0
	00o	17,261,315	20,059,822	0	3,954	23,384,277	609,566	14,973,309	76,292,242	0
	00n	0	0	0	0	185,900	1,512	8,564,225	8,751,637	0
Aluminum oxide	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
(fibrous forms)	95	25,100	15,627	0	9,991	21,448	2,986,600	2,315,726	5,374,492	2
	98o	7,716,545	254,780	0	0	0	1,147,081	2,012,318	11,130,724	0
	98n	0	12,691	0	0	46,453	524,087	15,619,418	16,202,649	0
	99o	12,612,150	496,257	0	1,111	217	38,365	2,664,021	15,812,121	0
	99n	4	1,731	0	0	909,390	1,205,831	30,944,181	33,061,137	0
	00o	13,283,176	398,432	0	1,946	0	671,881	2,913,310	17,268,745	0
	00n	0	9,483	0	0	208,614	144,636	42,641,257	43,003,990	17
* Aluminum	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
phosphide	95 98o	0	0	0	0	0	0	0	0	0
	980 98n	No reports	U	U	Ü	U	Ü	U	0	0
	990	0	0	0	0	0	0	0	0	0
	99n	0	0	0	0	66,262	0	28,100	94,362	0
	00o	0	0	0	0	00,202	0	0	0	0
	00n	0	0	0	0	35,975	0	0	35,975	0
* Ametryn	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ž	95	0	0	0	0	108,500	12,502	256	121,258	0
	98o	25	0	0	0	120,083	85,000	592	205,700	0
	98n	No reports								
	99o	25	0	0	0	46,079	12,000	801	58,905	0
	99n	No reports								
	00o	25	0	0	0	19,006	9,402	660	29,093	0
	00n	No reports								
** 2-Aminoanthra-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
quinone	95	No reports								
	98o	No reports								
	98n	No reports								
	990	No reports								
	99n	No reports								
	00o	No reports								
	00n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
60-09-3	**	4-Aminoazo-	88	1	0	0	537	0	537	0	537
		benzene	95	1	0	0	64	0	64	0	64
			980 98n	No reports	0	0	124	0	124	0	124
			990	2	0	0	287	0	287	0	287
			99n	No reports		^					
			00o 00n	No reports	0	0	175	0	175	0	175
92-67-1	**	4-Aminobiphenyl	88	1 1 1 1 1 1 1	10	0	4	0	14	0	14
			95	1	0	0	2	0	2	0	2
			98o	1	0	0	0	0	0	0	0
			98n 99o	No reports	0	0	12	0	12	0	12
			990 99n	No reports	U	U	13	U	13	U	13
			00o	1	1	0	47	0	48	0	48
			00n	No reports							
82-28-0	**	1-Amino-2-	88	No reports							
		methyl- anthraquinone	95 98o	No reports							
		antinaquinone	98n	No reports							
			99o	No reports							
			99n	No reports							
			00o 00n	No reports No reports							
33089-61-1	*	Amitraz	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	No reports		- 1.22					
			98o	No reports							
			98n	No reports	0	0	0	0	0	0	0
			99o 99n	No reports	0	0	0	0	0	0	0
			00o	1	0	0	0	0	0	0	0
			00n	No reports							
61-82-5	*,**	Amitrole	88	NR	NR	NR	NR	NR	NR	NR	NR
			95 98o	No reports							
			98n	2	1	0	0	0	1	0	1
			99o	No reports							
			99n	3	7	1	0	0	8	168	176
			000 00n	No reports	5	0	0	0	5	0	5
7664-41-7	*	Ammonia	00n 88	DC	5 DC	DC	DC	DC	DC	DC	5 DC
			95	2,944		9,334,788	23,959,031	5,650,138	198,228,036	1,600,475	199,828,511
			98o	2,752		7,345,467	25,647,620	3,342,826		2,040,864	194,636,770
			98n	262	5,818,432	364,668	502,580	1,426,446	8,112,126	29,639	8,141,765
			99o 99n	2,647 254	147,127,387 6,753,408	7,273,973 268,341	25,635,785 610,000	2,889,196 3,838,494	182,926,341 11,470,243	3,122,209 221,689	186,048,550 11,691,932
			99n 00o	2,562	131,524,721	6,775,957	27,110,871	2,693,596	168,105,145	4,074,534	172,179,680
			00n	269	7,523,130	784,697	224,399	3,079,177	11,611,403	333,593	11,944,996

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

			Recy	ycled	Energy R	Recovery	Т	reated	Oventity	Total	Non-Produc-
(Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Production- related Waste Managed Pounds	tion-reduc- tion-related Waste Managed Pounds
** .	4-Aminoazo-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
1	benzene	95	0	0	0	0	3	0	64	67	0
		980 98n	0 No reports	0	0	0	0	74	124	198	0
		98n 990	No reports	0	0	0	0	67	287	354	0
		99n	No reports								
		00o	0	0	0	0	0	31	175	206	0
** /	4. A i 1- i 1 1	00n	No reports	NIA	NIA	NIA	N/A	NIA	NIA	NIA	NT A
** 2	4-Aminobiphenyl	88 95	NA 0	NA 0	NA 0	NA 0	NA 91,000	NA 0	NA 2	NA 91,002	NA 0
		98o	0	0	0	0	98,000	810	0	98,810	0
		98n	No reports				ĺ			ĺ	
		99o	0	0	0	0	124,926	48	13	124,987	0
		99n 00o	No reports 0	0	0	0	74,329	32	48	74,409	0
		00n	No reports	V	Ů,	U	74,327	32	70	74,402	
**	1-Amino-2-methyl-		NA	NA	NA	NA	NA	NA	NA	NA	NA
1	anthraquinone	95	No reports								
		980 98n	No reports No reports								
		990	No reports								
		99n	No reports								
		00o	No reports								
•	A	00n	No reports	NIA	NIA	D.T.A.	D.T.A.	214	D.T.A.	NIA	N.T.A.
~ 4	Amitraz	88 95	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
		98o	No reports								
		98n	No reports								
		99o	0	0	0	0	0	0	0	0	0
		99n 00o	No reports 0	0	0	0	0	0	0	0	0
		000 00n	No reports	U	Ů Ú	U	0	U	0	· ·	"
*,**	Amitrole	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	No reports								
		980 98n	No reports 0	0	0	0	22,788	0	1	22,789	0
		990	No reports	U	U	U	22,700	U	1	22,769	
		99n	0	0	0	0	205,239	0	170	205,409	0
		00o	No reports								
*	A	00n	0	0	0	0	114,179	791	5	114,975	0
- 1	Ammonia	88 95	NA 190,464,294	NA 12,018,179	NA 43,263,891	NA 112,865	NA 308,703,408	NA 18,827,129	NA 198,476,233	NA 771,865,999	NA 1,096,315
		98o	342,121,789	10,431,999	103,213,467	150,020	280,230,712	17,260,790	198,763,883	952,172,660	515,195
		98n	7,945,375	1,883	0	97,656	5,093,107	91,284	8,048,665	21,277,970	61,127
		99o	199,486,305	7,763,053	89,129,210	134,609	318,197,935	16,176,060	187,737,203	818,624,375	517,413
		99n 00o	7,553,582 174,774,165	368 8,549,039	0 102,192,946	9,769	6,221,581 285,629,756	173,407 16,420,699	11,670,402 172,358,114	25,629,109 760,164,554	1,623
		000 00n	8,152,319	44,089	102,192,946	239,835	2,488,795	21,904	11,967,932	22,675,039	737,363 785

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commu							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
101-05-3	*	Anilazine	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
62-53-3	*	Aniline	88 95 980 98n 990 99n 000 00n	68 67 69 12 70 10 68	712,769 200,799 216,517 696 176,497 302 194,485 790	16,105 8,943 19,549 0 15,782 1 12,704	3,582,975 1,221,381 1,076,445 85,466 533,803 0 736,295 25,802	12,822 4,193 252 0 1,013 0 297	4,324,671 1,435,316 1,312,763 86,162 727,095 303 943,781 26,592	346,206 21,600 25,401 1,479 55,479 344 217,260	4,670,877 1,456,916 1,338,164 87,641 782,574 647 1,161,041 26,592
90-04-0	**	o-Anisidine	88 95 980 98n 990 99n 000 00n	6 7 7 No reports 7 No reports 5 No reports	2,293 1,031 1,373 1,587	285 74 39 14	0 0 0	250 0 0 0	2,828 1,105 1,412 1,601	3 3 2 1	2,831 1,108 1,414 1,602
104-94-9		p-Anisidine	88 95 980 98n 990 99n 000 00n	2 2 1 No reports No reports No reports No reports	10 5 45	250 0 0	0 0 0	250 0 0	510 5 45	0 0 0	510 5 45
134-29-2	**	o-Anisidine hydrochloride	88 95 980 98n 990 99n 000 00n	No reports							
120-12-7		Anthracene	88 95 980 98n 990 99n 000 00n	139 70 73 3 70 4 74 5	199,823 81,471 56,059 15 75,827 303 27,050 255	4,382 4,943 580 0 515 0 1,016	0 0 0 0 0 0 0	10,905 939 3,564 0 3,185 166,319 171	215,110 87,353 60,203 15 79,527 166,622 28,237 255	204,665 48,140 69,966 0 65,057 7,172 53,762	419,775 135,493 130,169 15 144,584 173,794 81,999 260

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(continueu)		Recy	cled	Energy l	Recovery	Т	reated	0	T-4-1	Non Burden
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
* Anilazine	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
* Aniline	88 95 980 98n 990 99n 000 00n	NA 7,243,251 7,549,987 0 9,876,710 0 8,479,315 0	NA 0 2 0 0 0 0	NA 7,419,516 8,579,301 0 7,785,942 0 7,697,155 682	NA 354,598 2,940,299 17,825 2,307,087 57,303 2,012,277 82,041	NA 3,749,706 3,611,723 837,519 3,248,988 638,618 3,425,368 644,762	NA 1,258,936 3,537,666 305,538 3,625,271 0 4,190,794 88,396	NA 1,455,266 1,358,868 86,786 769,384 136 1,168,450 26,385	NA 21,481,273 27,577,846 1,247,668 27,613,382 696,057 26,973,359 842,266	NA 1,147 6,698 0 8,993 0 331
** o-Anisidine	88 95 980 98n 990 99n 000 00n	NA 0 0 No reports 0 No reports 0 No reports	NA 0 0 0	NA 143 2,756 2,398 1,182	NA 0 0 0	NA 14,704 991 376	NA 5,100 5,176 7,083	NA 1,061 1,413 1,602	NA 21,008 10,336 11,459 3,889	NA 0 0 0
p-Anisidine	88 95 980 98n 990 99n 000 00n	NA 0 0 No reports No reports No reports No reports No reports No reports	NA 0 0	NA 0 0	NA 0 0	NA 0 61	NA 9 0	NA 9 45	NA 18 106	NA 0 0
** o-Anisidine hydrochloride	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	88 95 980 98n 990 99n 000	NA 176,705 303,857 0 599,528 0 651,688	NA 20,744 33,782 0 30,256 0 14,098	NA 183,121 333,554 0 237,242 0 180,509	NA 200,541 97,248 0 162,322 0 103,206	NA 1,693,357 100,138 4,354 78,457 228,324 112,450 589,947	NA 5,084 63,167 37 25,067 215 108,542 0	NA 115,722 130,316 8 148,881 173,562 80,549 73	NA 2,395,274 1,062,062 4,399 1,281,753 402,101 1,251,042 590,020	NA 34,350 0 0 0 0 288

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

						On-site Releases	ı		Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
7440-36-0	Antimony	88	152	69,916	11,114	2,100	903,916	987,046	625,682	1,612,728
		95	135	34,310	6,592	0	18,786	59,688	122,760	182,448
		98o	119	7,015	14,471	0	30,542	52,028	328,162	380,190
		98n	11	78	47	18,994	1,226,450	1,245,569	71,776	1,317,345
		99o	123	10,544	13,411	0	51,625	75,580	331,315	406,895
		99n	6	93	0	0	715,803	715,896	19,118	735,014
		00o	123	9,527	17,401	0	55,690	82,618	171,044	253,662
		00n	6	129	0	0	119,754	119,883	113,231	233,114
	Antimony	88	272	166,290	31,178	9,200	1,935,018	2,141,686	2,281,080	4,422,766
	compounds	95	561	105,481	33,705	11,332	1,598,569	1,749,087	3,426,653	5,175,740
		980	590	73,412	33,435	11,298	1,242,642	1,360,787	3,393,824	4,754,611
		98n 99o	57 591	11,800 117,089	22,136	170,062 62,911	23,472,944 980,943	23,676,942	161,529 2,925,734	23,838,471
		990 99n	62	14,525	31,374 31,354	610,086	27,200,608	1,192,317 27,856,573	373,811	4,118,051 28,230,384
		000	590	79,697	28,554	40,140	684,472	832,863	3,341,980	4,174,843
		000 00n	57	13,810	35,154	670,064	23,883,186	24,602,214	190,028	24,792,242
7440-38-2	** Arsenic	88	78	7,687	1,282	070,004	181,267	190,236	65,342	255,578
7110 30 2	Tilbelite	95	94	7,121	368	0	27,356	34,845	81,878	116,723
		98o	49	16,332	533	0	5,065	21,930	113,239	135,169
		98n	36	40,200	1,334	269,393	76,489,637	76,800,564	194,050	76,994,614
		990	53	948	547	0	76,294	77,789	80,304	158,093
		99n	25	5,547	505	250	35,645,402	35,651,704	397,514	36,049,218
		00o	51	1,155	709	0	47,694	49,558	75,921	125,479
		00n	29	2,549	621	138,358	1,089,824	1,231,352	214,446	1,445,798
	** Arsenic	88	274	268,528	6,243	27,400	4,946,184	5,248,355	1,407,110	6,655,465
	compounds	95	305	83,604	4,825	55,000	1,723,347	1,866,776	1,556,795	3,423,571
		98o	350	98,183	5,639	173,100	7,110,353	7,387,275	723,356	8,110,630
		98n	205	201,750	159,881	760,075	549,575,334	550,697,040	1,463,780	552,160,820
		990	332	82,849	15,673	198,312	9,234,345	9,531,179	1,523,567	11,054,746
		99n	199	204,882	168,073	880,034	559,607,522	560,860,511	1,613,937	562,474,448
		00o	337	68,375	4,088	68,949	8,133,275	8,274,687	2,044,358	10,319,045
1222 21 4	* ** A -1 (C.:-1-1-)	00n	204	172,581	162,394	1,740,786	461,280,436	463,356,197	2,965,699	466,321,896
1332-21-4	*,** Asbestos (friable)	88 95	146 74	48,496 5,950	10,699	0	2,111,880 131,404	2,171,075 137,355	12,135,707 4,860,165	14,306,782 4,997,520
		980	66	2,314	1	0	610,368	612,683	8,319,951	8,932,634
		98n	15	138	0	0	13,527,501	13,527,639	155,023	13,682,662
		990	74	3,139	0	0	326,000	329,139	4,843,382	5,172,521
		99n	13	43	0	0	13,247,597	13,247,640	1	13,247,641
		00o	73	2,252	1	0	618,463	620,716	3,443,527	4,064,243
		00n	12	284	0	0	20,566,050	20,566,334	0	20,566,334
1912-24-9	* Atrazine	88	NR	NR	NR	NR	NR	NR	NR	NR
		95	20	22,689	1,656	0	637,036	661,381	101,631	763,012
		98o	23	30,971	2,756	336	554,456	588,519	15,780	604,299
		98n	5	12	0	0	73,687	73,699	3,690	77,389
		99o	23	20,915	1,212	172	599,739	622,038	22,795	644,833
		99n	5	31	0	0	44,173	44,204	133	44,337
		00o	22	33,796	1,034	198	501,732	536,760	74,457	611,217
		00n	5	11	0	0	0	11	277	288

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information). For arsenic compounds, applies only to inorganic arsenic compounds.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

Chemical Yes Antimony 88 95 98 98 99	3,8 o 4,6	On-site Pounds NA 31,021 525,143	Off-site Pounds NA	On-site Pounds	Off-site Pounds	On-site	Off-site	Quantity Released On-and	Total Production- related Waste	Non-Produc- tion-related Waste
95 98 98	o 4,6	31,021				Pounds	Pounds	Off-site Pounds	Managed Pounds	Managed Pounds
98 98	o 4,6			NA	NA	NA	NA	NA	NA	NA
98	n		5,487,501	0	1,730	818,680	95,864	127,063	10,361,859	459
		0	727,639	30,405 0	66,692	308,925 0	52,241	340,759 1,284,899	6,151,804	6
	5 7	76,182	0 1,167,889	0	0	351,900	38,018 108,459	289,408	1,322,917 7,193,838	3
99	1	0	0	0	0	0	0	734,829	734,829	0
00		94,077	1,428,805	0	0	380,219	70,600	182,750	6,156,451	260
00		0	0	0	0	54,209	79,614	151,878	285,701	0
Antimony 88		NA	NA	NA	NA	NA	NA	NA	NA	NA
compounds 95		73,201	3,311,424	0	50,997	79,188	939,909	4,047,846	13,802,565	27,805
98		85,215	4,161,658	6,820	16,879	566,509	499,188	4,544,017	14,680,286	142,975
98		10,441	650	0	52.102	16,484	8	23,852,439	23,880,022	150
99 99		11,713	3,804,997 16,252	0	53,103	470,311 0	483,400 470	3,738,402 27,927,043	13,591,871 27,955,478	230,326 300,000
00		34,490	4,754,218	0	17,821	100,935	268,784	4,018,916	13,595,164	57,887
00		11,200	32,176	0	0	0	0	24,732,017	24,775,393	130,000
** Arsenic 88		NA	NA	NA	NA	NA	NA	NA	NA NA	NA
95	1,0	72,279	162,386	7,700	496	13,030	45,969	66,757	1,368,617	749
98	0 3,4	03,468	185,974	0	0	64,685	3,058	223,051	3,880,236	2,533
98		42,954	0	0	0	60,800	17,033	76,970,133	77,590,920	0
99		02,341	567,744	0	0	74,034	3,652	164,470	2,312,241	1,171
99		0	142,814	0	0	0	111,931	36,314,249	36,568,994	0
00		017,212	78,797 0	0	0	79,003 0	7,097	128,288	1,310,397	485
** Arsenic 88	n	NA	NA	NA	NA	NA	3 NA	1,570,193 NA	1,570,196 NA	36,200 NA
compounds 95	2.4	46,334	300,321	0	231	227,628	1,302,233	2,883,568	7,160,315	93,383
98		29,635	858,825	0	0	68,912	121,938	7,009,466	10,588,776	2,154,030
98		58,677	312	0	1	43,270	7,039	552,257,795	552,367,094	13
99	0 3,5	25,129	1,081,965	300	0	61,122	202,472	7,432,899	12,303,887	2,438,781
99	n	65,746	2,251	0	0	0	474	562,949,880	563,018,351	5,200,000
00		41,643	453,981	0	0	3,956	323,998	7,332,305	11,855,883	1,113,626
00	n 1	42,700	9,965	0	0	0	110	463,320,900	463,473,675	2,201,600
*,**Asbestos (friable) 88		NA	NA	NA	NA	NA	NA	NA 4 275 051	NA	NA
95 98		91,000	0 150	0 0	0	1,549,948 1,208,520	1,102 362	4,275,051 6,740,733	6,117,101 8,202,088	176,195 2,206,595
98		0	0	0	0	1,208,320	0	13,527,516	13,527,516	2,200,393
99		78,509	145	0	0	606,797	3,802	3,462,512	4,251,765	364,000
99		0	0	0	0	0	0	13,300,010	13,300,010	0
00	0	62,442	0	0	0	148,255	35,652	3,810,864	4,057,213	0
00		0	0	0	0	0	0	20,566,211	20,566,211	0
* Atrazine 88		NA	NA	NA	NA	NA	NA	NA	NA	NA
95		73	0	0	0	556,057	180,643	685,144	1,421,917	17,000
98		250	0	0	0	654,669	213,479	612,381	1,480,779	251
98		2 250	0	0	0	268,583 510,071	10 190,895	77,389 670,522	345,982	250
99 99		2,250 0	0	0	0	146,907	190,895	679,522 44,337	1,382,738 191,254	250 0
00		78,625	0	0	0	533,006	195,934	615,245	1,422,810	16,060
00		0	0	0	0	108,207	0	288	108,495	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).. For arsenic compounds, applies only to inorganic arsenic compounds.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

						On-site Releases	1		Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
7440-39-3	Barium	88 95 980	143 76 70	266,811 173,950 52,419	18,650 6,279 7,807	0 0 0	6,721,686 227,523 285,353	7,007,147 407,752 345,579	1,883,903 495,570 439,345	8,891,050 903,322 784,924
		98n 99o 99n	58 67 43	198,123 77,578 181,781	141,206 2,157 55,281	25,000 0 24,153	9,299,213 501,745 5,446,972	9,663,542 581,480 5,708,187	1,311,770 502,274 1,818,987	10,975,312 1,083,754 7,527,174
	D.	00o 00n	64 41	57,435 294,186	15,764 5,375	0 70,254	510,529 8,323,017	583,729 8,692,832	369,657 1,510,543	953,386 10,203,375
	Barium compounds	88 95 980	630 594 704	1,027,383 371,450 937,142	104,302 108,141 1,101,957	2,773 83,000 35,400	5,791,655 1,707,867 7,018,432	6,926,113 2,270,458 9,092,931	17,487,312 6,900,959 6,264,260	24,413,425 9,171,417 15,357,191
		98n 99o 99n	443 688 440	2,222,786 984,581 2,246,222	1,003,597 1,113,204 1,062,123	1,286,250 268 1,982,650	170,304,077 6,126,173 246,415,154	174,816,710 8,224,226 251,706,149	38,238,398 6,745,740 35,996,337	213,055,108 14,969,966 287,702,486
22781-23-3 *	Bendiocarb	00o 00n 88	663 449 NR	829,138 2,021,656 NR	824,097 925,227 NR	43 2,099,400 NR	5,219,848 238,482,274 NR	6,873,126 243,528,557 NR	7,525,717 41,852,995 NR	14,398,842 285,381,552 NR
		95 980 98n	2 3 1	555 2 3	0 0 0	0 0 0	0 0 0	555 2 3	0 0 10	555 2 13
		990 99n 000 00n	3 1 4	5 11 0	0 0 0	0 0 0	0 0 0 0	5 11 0 1	0 10 0 0	5 21 0
1861-40-1 *	Benfluralin	88 95 980	NR 8 8	NR 2,977 1,564	NR 0 0	NR 0 0	NR 0 0	NR 2,977 1,564	NR 14,000 3	NR 16,977 1,567
		98n 99o 99n	No reports 9 No reports	1,231	0	0	0	1,231	5	1,236
15004.25.2	D. I	00o 00n	6 No reports	750	0	0	0	750	0	750
17804-35-2 *	Benomyl	88 95 980	NR 2 3	NR 0 1	NR 0 0	NR 0 0	NR 0 0	NR 0 1	NR 0 0	NR 0 1
		98n 99o 99n	1 3 2	10 7 0	0 0 0	0 0 0	0 0 0	10 7 0	5 0 254	15 7 254
98-87-3	Benzal chloride	00o 00n 88	3 1 3	6 0 5,258	0 0	0 0	0 0	6 0 5,258	0 0 7,308	6 0 12,566
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Denzar emoride	95 98o	4 3	1,112 398 20	0	0	0	1,112 398	0	1,112 398
		98n 99o 99n	3 3 1	387 23	0 0 0	0 0 0	0 0 0	20 387 23	0 0 22	20 387 45
		00o 00n	3	336 146	0	0	0	336 146	0 8	336 154

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	опиниеи)		Recy	cled	Energy 1	Recovery	Т	reated	0	T-4-1	Nan Dan Jan
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
	Barium	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	14,719	198,944	0	102	43,195	35,014	775,703	1,067,677	0
		980	159,389	63,535	601,788	418	399,046	119,822	1,011,367	2,355,365	650
		98n 99o	4,992 164,889	437,318 70,421	0	0	376,908 34,104	289,982 105,417	10,731,478 1,294,056	11,840,678 1,668,887	$0 \\ 0$
		99n	28,292	819,285	0	0	1,177,015	167,327	6,765,769	8,957,688	10
		00o	254,216	391,158	57,134	0	24,520	108,204	1,179,495	2,014,728	1,722
		00n	0	1,368,515	0	0	0	10	9,732,006	11,100,531	2,138,189
	Barium	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	compounds	95	26,241,724	2,182,729	200	66,358	6,364,467	2,522,356	8,132,247	45,510,081	33,031
		98o	35,256,434	6,615,002	19,138	90,616	5,780,159	1,935,420	15,150,300	64,847,069	513
		98n	563,428	623,452	0	26,000	146,646	179,138	212,343,393	213,882,057	24,128
		990	32,045,200	3,248,255 2,218,164	6,000	139,668	5,017,763	869,380	16,495,044	57,821,310	14,131
		99n 00o	551,001 35,726,233	3,303,571	0	0 11,818	34,315 4,977,561	219,843 1,763,301	289,062,153 14,244,624	292,085,476 60,027,108	11,260 49,261
		000 00n	79,000	2,388,749	0	0	604,204	180,739	285,282,734	288,535,426	1,115
*	Bendiocarb	88	75,000 NA	NA	NA NA	NA	NA	NA	NA	NA	NA
		95	560	0	0	0	0	0	560	1,120	0
		98o	0	0	0	0	0	580	0	580	0
		98n	0	0	0	0	0	0	30	30	0
		990	0	0	0	0	0	581	0	581	0
		99n	0	0	0	0	56,392	0	11	56,403	0
		00o	0	0	0	0	0	470	0	470	0
*	Benfluralin	00n 88	0 NA	0 NA	0 NA	0 NA	13,974 NA	772 NA	1 NA	14,747 NA	0 NA
	Deminianii	95	4,205	0	0	0	6,200	175	16,910	27,490	0
		98o	79,000	0	0	0	31	897	1,347	81,275	0
		98n	No reports	_	_	-			,,,,,,	0 - , _ , .	_
		99o	87,000	0	0	0	0	335	1,223	88,558	0
		99n	No reports								
		00o	4,600	0	0	0	0	0	751	5,351	0
at.	D 1	00n	No reports	27.1	27.	271	27.1	27.1	27.1	271	27.1
*	Benomyl	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95 980	0	0	0 45,000	0 65,600	482,000 20,200	122,000 20,263	0 1	604,000 151,064	$0 \\ 0$
		98n	0	0	45,000	05,000	95,374	20,203	20	95,394	0
		99o	0	0	0	107,108	13,757	16,128	7	137,000	0
		99n	0	0	0	0	31,995	0	16	32,011	0
		00o	0	0	0	42,029	13,577	4,760	6	60,372	0
		00n	0	0	0	0	17,097	732	0	17,829	0
	Benzal chloride	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	260,000	2,800	0	1,105	263,905	0
		980	0	0	0	120,000	84,000	200	400	204,600	0
		98n 99o	0	0	0	0 550,000	235,247 83,000	0 74	20 388	235,267 633,462	0 0
		990 99n	0	0	0	330,000	676,990	0	388 45	677,035	0
		000	0	0	0	1,100,000	71,000	92	327	1,171,419	0
		00n	0	0	0	0	1,240,555	922	157	1,241,634	0
_						•	, -,			, ,	

 $\textbf{Note:} \ \mathsf{Data} \ \mathsf{from} \ \mathsf{Section} \ \mathsf{8} \ (\mathsf{Current} \ \mathsf{Year}) \ \mathsf{of} \ \mathsf{Form} \ \mathsf{R}.$

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	,					On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
55-21-0	Benzamide	88 95 980 98n 990 99n 000 00n	No reports	500	250	250	0	1,000	750	1,750
71-43-2	*,** Benzene	88 95 980 98n 990 99n 000 00n	483 477 488 524 490 495 502 493	32,340,684 9,401,776 7,270,122 362,385 7,270,481 357,531 6,399,187 496,068	46,732 21,290 15,073 3,948 13,579 14,318 19,356 3,304	825,035 282,642 504,109 71,697 617,825 222,803 360,772 259,478	126,728 18,583 237,544 2,727 18,732 125,127 12,217 38,753	33,339,179 9,724,291 8,026,848 440,757 7,920,617 719,779 6,791,532 797,603	396,880 71,391 141,586 65,792 77,467 82,473 30,310 18,003	33,736,059 9,795,682 8,168,434 506,549 7,998,084 802,252 6,821,842 815,606
92-87-5	** Benzidine	88 95 980 98n 990 99n 000 00n	No reports No reports No reports 4 2 4 No reports 6	38 7 6	0 0 0	0 0 0	0 0 0	38 7 6	0 0 165	38 7 171
98-07-7	** Benzoic trichloride	88 95 980 98n 990 99n 000 00n	4 6 6 2 6 4 3 3	24,963 6,496 2,253 2 2,175 9 1,839	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	24,963 6,496 2,253 2 2,175 9 1,839	9,777 250 330 110 400 172 290	34,740 6,746 2,583 112 2,575 181 2,129
191-24-2	*** Benzo(g,h,i) perylene	88 95 980 98n 990 99n 000 00n	NR NR NR NR NR NR 874 492	NR NR NR NR NR NR S6,997.22 5,320.87	NR NR NR NR NR NR 468.34	NR NR NR NR NR NR 0.00	NR NR NR NR NR NR NR 4,643.33	NR NR NR NR NR NR 42,108.89 6,952.63	NR NR NR NR NR NR 115,439.27	NR NR NR NR NR NR 157,548.16 8,441.07
98-88-4	Benzoyl chloride	88 95 980 98n 990 99n 000 00n	22 21 25 1 22 2 2 22 1	33,014 16,749 11,905 88 10,351 74 11,063	0 0 0 0 0 0 0	130,000 0 0 0 0 0 0 0	250 0 0 0 0 0 0 0	163,264 16,749 11,905 88 10,351 74 11,063	2,399 1,460 0 3,980 0 2,393 0 2,006	165,663 18,209 11,905 4,068 10,351 2,467 11,063 2,067

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} PBT chemical added to list for 2000 reporting year. See Chapter 3 for more information.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recy	cled	Energy l	Recovery	T	reated	Quantity	Total	Non-Produc-
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Production- related Waste Managed Pounds	tion-Produc- tion-related Waste Managed Pounds
Benzamide	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	No reports								
	980 98n	No reports								
	9811 990	No reports No reports								
	99n	No reports								
	00o	No reports								
	00n	No reports								
*,**Benzene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95 98o	47,987,022	507,033	20,222,877	1,579,954	54,065,446	2,604,429	9,787,538	136,754,299	65,951 51,715
	980 98n	37,350,029 944,441	727,451 502,057	16,882,843 569,513	1,086,610 8,361,689	48,421,108 3,913,360	3,810,904 303,193	8,163,209 912,488	116,442,154 15,506,741	31,713
	990	36,876,532	703,723	24,765,316	1,120,210	49,891,109	3,247,179	8,001,225	124,605,294	67,201
	99n	2,304,679	56,660	619,481	1,494,490	5,620,387	971,281	698,427	11,765,405	23,436
	00o	21,103,490	1,826,345	42,167,963	1,189,753	63,073,414	2,229,744	6,835,080	138,425,789	32,809
did to 11	00n	1,534,957	26,024	983,019	1,445,952	6,103,980	89,934	809,646	10,993,512	9,099
** Benzidine	88 95	NA No somesta	NA	NA	NA	NA	NA	NA	NA	NA
	93 980	No reports No reports								
	98n	0	0	0	0	101,123	58	34	101,215	0
	99o	0	0	89,000	0	5,538	60	2	94,600	0
	99n	0	0	0	0	311,452	0	169	311,621	0
	00o	No reports								
** Renzoic	00n	0	0	0	0	206,007	781	12	206,800	0
** Benzoic trichloride	88 95	NA 0	NA 0	NA 0	NA 3,001	NA 150,000	NA 32	NA 6,242	NA 159,275	NA 0
tricinoriae	98o	0	0	0	20,000	160,000	34,870	2,557	217,427	0
	98n	0	0	0	0	15,768	0	112	15,880	0
	99o	0	0	0	20,000	110,000	1,608	2,572	134,180	0
	99n	0	0	0	0	176,025	0	178	176,203	0
	00o	0	0	0	0	150,000	431	2,118	152,549	0
*** Benzo(g,h,i)	00n 88	0 NA	0 NA	0 NA	0 NA	48,478 NA	780 NA	2 NA	49,260 NA	0 NA
perylene	95	NR	NR	NR NR	NR	NR	NR	NR	NR NR	NR
perficie	98o	NR	NR	NR	NR	NR	NR	NR	NR	NR
	98n	NR	NR	NR	NR	NR	NR	NR	NR	NR
	99o	NR	NR	NR	NR	NR	NR	NR	NR	NR
	99n	NR	NR	NR	NR	NR	NR	NR	NR	NR
	00o 00n	100,035.03 70.05	9,891.57 33.65	1,804,343.11 12.15	5,637.26 19.07	1,308,613.31 142,754.93	2,659.00 6.42	158,993.51 8,222.58	3,390,172.80 151,118.85	638.33 1.21
Benzoyl chloride	88	70.03 NA	33.03 NA	12.13 NA	19.07 NA	142,734.93 NA	0.42 NA	8,222.38 NA	131,116.63 NA	NA
201120ji emeride	95	0	0	0	80	1,676,545	615,127	18,213	2,309,965	0
	98o	0	0	0	0	2,011,461	498,362	11,903	2,521,726	0
	98n	0	0	0	0	570,508	0	4,068	574,576	0
	99o	0	0	0	0	2,370,374	336,441	10,370	2,717,185	0
	99n	0	0	0	1 210	504,005	206.258	2,469	506,474	0
	00o 00n	0	0	0	1,319 0	2,876,899 416,762	306,258 0	9,919 2,067	3,194,395 418,829	0
	oon	U	U	U	0	410,/02	U	2,007	418,829	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} PBT chemical added to list for 2000 reporting year. See Chapter 3 for more information.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
94-36-0	*	Benzoyl peroxide	88 95 980	50 65 60	6,294 2,043 803	0 255 250	5,350 0 0	36,050 10,345 736	47,694 12,643 1,789	23,954 4,760 6,046	71,648 17,403 7,835
			98n 99o 99n 00o	4 58 2 58	0 251 0 2,658	0 250 0 250	0 0 0	0 117 0 60	0 618 0 2,968	5,423 2 16,321	0 6,041 2 19,289
100-44-7		Benzyl chloride	00n 88	2 51	0 43,329	0 640	0	0 500	0 44,469	9,687	0 54,156
			95 980 98n	47 45 3	19,664 26,888 41	40 347 250	0 150 0	247 261 0	19,951 27,646 291	3,870 4,506 1	23,821 32,152 292
			990 99n 00o	38 6 37	26,278 23 19,020	1,207 1 87	270 0 450	214 0 263	27,969 24 19,820	1,260 177 3,040	29,229 201 22,860
7440-41-7	**	Beryllium	00n 88	2 12	28 2,763	0 74	0	37,000	28 39,837	3,160	31 42,997
			95 980 98n	10 14 5	1,087 799 0	31 26 0	0 0 0	21,255 57,818 0	22,373 58,643 0	7,595 20,404 0	29,968 79,047 0
			990 99n 00o	15 7 18	769 0 360	57 0 309	0 0 0	53,271 0 86,484	54,097 0 87,153	20,081 0 2,916	74,178 0 90,069
	**	D = ==11!:	00n	5	0	0	0	0	0	0	0
	**	Beryllium compounds	88 95 980	5 7 8	862 360 383	17 2 6	0 0 0	12,000 23,000 0	12,879 23,362 389	8,261 2,391 6,754	21,140 25,753 7,143
			98n 99o 99n	53 16 57	20,999 473 7,343	1,859 27 3,483	$ \begin{array}{c} 0 \\ 4,100 \\ 0 \end{array} $	733,229 19 822,928	756,087 4,619 833,754	91,333 5,028 49,840	847,420 9,647 883,594
92657 04 2	*	D:C41:-	00o 00n	12 47	4,545 6,009	8,297	0 0	788,918	4,556 803,224	16,094 29,079	20,650 832,303
82657-04-3	·	Bifenthrin	88 95 980	NR 3 5	NR 10 760	NR 0 5	NR 0 0	NR 5 0	NR 15 765	NR 0 0	NR 15 765
			98n 99o 99n	1 5 No reports	0 546	0	0	0	0 546	19 0	19 546
			00o 00n	6 No reports	1,012	0	0	0	1,012	0	1,012
92-52-4	*	Biphenyl	88 95 980	181 136 123	1,211,292 744,976 536,524	88,197 6,242 4,105	82,760 30,337 29,574	222,297 71,864 1,159	1,604,546 853,419 571,362	227,492 38,088 49,880	1,832,038 891,507 621,242
			98n 99o	10 126	36 675,977	0 8,949	0 4,177	0 24	36 689,127	55 56,857	91 745,984
			99n 00o 00n	10 120 10	3,348 621,274 289	0 5,829 0	0 1,100 0	2 339 0	3,350 628,542 289	2,615 36,363 5	5,965 664,905 294

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	eled	Energy R	ecovery	Tr	eated	Quantity	Total	Non-Produc-
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Production- related Waste Managed Pounds	tion-reduc- tion-related Waste Managed Pounds
Benzoyl peroxide	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	4,600	10,800	863	1,520	57,214	42,461	16,769	134,227	0
	980	10,364	0	0	1,191	86,629	49,139	8,972	156,295	0
	98n	0	0	0	0	12,360	0	0	12,360	0
	990	6,935	0	0	1,885	124,112	91,458	6,476	230,866	0
	99n 00o	0 9,153	0 0	0	0 290	15,291 65,663	79 190	21 261	15,293 174,547	0
	000 00n	9,133	0	0	0	16,419	78,180 0	21,261 0	16,419	0
Benzyl chloride	88	NA	NA	NA	NA	10,419 NA	NA	NA	10,419 NA	NA
Delizyi eliloride	95	1,000	0	25,481	430,300	256,947	11,027	21,421	746,176	80
	98o	4,800	0	17,000	420,878	250,910	76,610	31,360	801,558	0
	98n	0	0	0	0	483,947	0	66	484,013	0
	99o	0	0	0	392,457	169,516	37,127	28,550	627,650	0
	99n	0	0	0	0	678,251	0	198	678,449	0
	00o	208	0	0	520,751	172,288	5,731	22,162	721,140	18
	00n	0	0	0	0	580,423	0	31	580,454	0
* Beryllium	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	39,689	19,263	0	0	780	423	27,369	87,524	0
	98o	160,399	84,146	0	0	10	8	63,356	307,919	0
	98n	0	0	0	0	0	0	0	0	0
	990	101,065	24,154	0	0	0	966	66,436	192,621	0
	99n	0	0	0	0	0	0	0	0	0
	00o	622,263	66,837	0	0	9	1,319	89,904	780,332	40
* Beryllium	00n 88	0 NA	0 NA	0 NA	0 N A	0 NA	0 NA	0 NA	0 NA	0 NA
* Beryllium compounds	95	1NA 7	23,880	0	NA 0	0	1,011	24,661	49,559	0
compounds	98o	0	26,450	0	0	0	1,011	1,833	29,373	0
	98n	9,700	0	0	0	194	0	846,933	856,827	300
	990	0	38,384	0	0	0	1,349	8,089	47,822	0
	99n	9,700	0	0	0	0	0	898,112	907,812	0
	00o	0	33,768	0	0	0	486	20,113	54,367	0
	00n	9,709	0	0	0	0	0	844,699	854,408	0
Bifenthrin	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	10	10	20	0
	98o	0	0	0	0	0	402	230	632	0
	98n	0	0	0	0	11,275	0	19	11,294	0
	990	0	0	0	0	1	2,069	71	2,141	0
	99n	No reports								
	00o	0	0	0	0	1	3,592	178	3,771	0
D' 1 1	00n	No reports	D.T.A.	NIA	NIA	D.T.A.	NIA	D.T.A.	NTA.	D.T.A.
Biphenyl	88 95	NA 268 053	NA 194.091	NA 1,088,381	NA 246.055	NA 963,993	NA 615 716	NA 904,728	NA 4 271 007	NA 11 625
		268,053 306,564	184,081		346,055 131,946		615,716	,	4,371,007	11,635 3,938
	980 98n	306,564 0	288,334 0	1,209,699 0	131,946	495,349 279,525	764,962 263	626,662 89	3,823,516 292,717	3,938
	98n 990	446,648	273,973	2,098,273	12,840	668,179	610,722	765,261	5,013,110	4,189
	990 99n	0	0	2,098,273	42,583	711,018	2,824	3,152	759,577	4,109
	00o	230,846	727,786	1,864,031	126,895	2,808,537	599,683	682,277	7,040,055	4,543
	00n	0	0	109	0	1,193,457	27	156	1,193,749	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
111-91-1		Bis (2-chloroethoxy) methane	88 95 980 98n 990 99n 000 00n	NR 1 1 1 1 1 1 2	NR 12,510 1,434 0 1,312 2 1,330	NR 0 0 0 0 1 0	NR 250 930 0 3,697 0 9,302	NR 0 1,024 0 0 0 0	NR 12,760 3,388 0 5,009 3 10,632	NR 0 0 0 0 4 450	NR 12,760 3,388 0 5,009 7 11,082
111-44-4	*	Bis(2-chloroethyl) ether	88 95 980 98n 990 99n 000 00n	8 11 11 3 12 3 10 4	4,922 564 844 0 353 11 423	1,351 3 4 0 23 1 2	0 0 0 0 0 0 0	0 0 0 0 0 0	6,273 567 848 0 376 12 425	0 0 1 0 296 17 6,120	6,273 567 849 0 672 29 6,545
542-88-1	**	Bis(chloromethyl) ether	88 95 980 98n 990 99n 000 00n	2 2 2 No reports 1 2 1	1 0 0 0 4 0 0	0 0 0 0 0 0 0 5	0 0 0 0 0 0	0 0 0 0 0 0	1 0 0 0 4 0 5	0 0 0 0 153 0	1 0 0 0 157 0 5
108-60-1		Bis(2-chloro-1- methylethyl) ether	88 95 980 98n 990 99n 000 00n	2 2 2 No reports 2 No reports 2 2	7,959 6,130 3,360 4,110 2,861 61	30,000 0 46 2 2	0 0 0	0 0 2 2 4 0	37,959 6,130 3,408 4,114 2,867 61	0 0 0 0	37,959 6,130 3,408 4,114 2,867 61
56-35-9	*	Bis(tributyltin) oxide	88 95 980 98n 990 99n 000	NR 2 3 No reports 5 No reports 4	NR 0 0	NR 32 6	NR 0 0 0	NR 0 2 1	NR 32 8 17	NR 13,873 3,372 3,923 22,745	NR 13,905 3,380 3,940 22,753
10294-34-5		Boron trichloride	95 980 980 980 990 990 900 000	No reports NR 4 5 No reports 8 No reports 11 1	NR 5 750 350 605 0	NR 0 0 0	NR 0 0 0	NR 0 0 0	NR 5 750 350 605 0	NR 0 0 0	NR 5 750 350 605 0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

<u>\</u>	опинией)		Recyc	cled	Energy R	Recovery	Tr	reated	0	T-4-1	Non Donadora
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
	Bis(2-chloroethoxy) 88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	methane	95	0	0	0	0	0	0	12,796	12,796	0
		98o	0	0	0	0	0	15	3,388	3,403	0
		98n	0	0	0	0	0	0	5,000	5,000	0
		99o 99n	0	0	0	0	28,000	0	5,009 2	5,009 28,002	0
		00o	0	0	0	0	0	0	11,099	11,099	0
		00n	0	0	0	0	19,055	795	0	19,850	0
*	Bis(2-chloroethyl)	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ether	95	0	146,118	302,700	203,775	0	88,893	570	742,056	0
		980	0	159,909	426,404	9,541	540,375	349,619	853	1,486,701	0
		98n 99o	0	0 142,932	0 1,280,773	0 6,127	10,234 1,627,378	0 455,565	0 384	10,234 3,513,159	0
		99n	0	0	1,280,773	0,127	215,220	455,505	26	215,246	0
		00o	0	0	927,539	5,321	1,417,618	625,137	424	2,976,039	0
		00n	0	0	0	0	158,644	791	44	159,479	0
**	Bis(chloromethyl)	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ether	95	0	0	0	0	13,000	0	0	13,000	0
		980 98n	0 No reports	0	0	0	36,500	0	0	36,500	0
		990	0	0	0	0	34,000	0	0	34,000	0
		99n	0	0	0	0	111,933	0	157	112,090	0
		00o	0	0	0	0	37,000	0	0	37,000	0
		00n	0	0	0	0	67,878	0	3	67,881	0
	Bis(2-chloro-1-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	methylethyl) ether	95 98o	5,200,000 8,900,000	0	8,540,000 6,000,000	0	10,840,000 1,410,000	0	6,100 3,500	24,586,100 16,313,500	1 0
		98n	No reports	U	0,000,000	O	1,410,000	U	3,300	10,515,500	0
		990	2,800,000	0	7,210,000	0	5,149,000	0	4,100	15,163,100	0
		99n	No reports				, ,		ĺ	, ,	
		00o	0	0	5,433,123	0	201,100,128	0	2,869	206,536,120	0
de	D' (('1 + 1(')	00n	0	0	0	0	1,002,615	771	61	1,003,447	0
•	Bis(tributyltin) oxide	88 95	NA 0	NA 39,840	NA 0	NA 0	NA 336	NA 0	NA 13,903	NA 54,079	NA 0
	OXIUC	93 980	0	58,478	0	0	336	0	3,380	62,194	0
		98n	No reports	20,.70		v		Ű	2,200	02,19	
		99o	0	35,864	0	0	346	530	4,367	41,107	0
		99n	No reports								
		00o	0	49,641	0	0	257	0	22,752	72,650	7,834
	Boron trichloride	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
	Poton memoride	88 95	5,000	NA 0	NA 0	NA 0	200	NA 0	NA 1	5,201	0 NA
		98o	6,700	0	0	0	53,000	0	335	60,035	2
		98n	No reports					, i			_
		99o	9,100	0	0	0	16,000	10,000	145	35,245	0
		99n	No reports		_		1		2.1-	102 =0:	_
		00o	85,596	0	0	0	16,761	0	347	102,704	2
		00n	0	0	0	0	0	0	0	0	0

Note: Data from Section 8 (Current Year) of Form R. 980, 990 and 000 are data from original industries; 98n, 99n and 00n are data from new industries. NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
7637-07-2		Boron trifluoride	88 95	NR 24	NR	NR	NR	NR	NR	NR 929	NR
			98o	24 23	25,019 38,142	0 5	0	0	25,019 38,147	0	25,948 38,147
			98n 99o	No reports 23	16,722	0	0	0	16,722	0	16,722
			99n 00o	No reports 26	11,595	0	0	0	11,595	250	11,845
			00n	No reports							
314-40-9	*	Bromacil	88 95	NR	NR	NR	NR	NR	NR	NR	NR
			95 980	5 1	500 10	27,897 0	0	0	28,397 10	0	28,397 10
			980 98n	1	25	0	0	0	25	0	25
			990	1	10	0	0	0	10	0	10
			99n	1	0	0	0	0	0	0	0
			00o	1	0	0	0	0	0	0	0
			00n	1	0	0	0	0	0	0	0
53404-19-6	*	Bromacil, lithium		NR	NR	NR	NR	NR	NR	NR	NR
		salt	95	No reports							
			980	No reports							
			98n	No reports							
			990	No reports							
			99n	No reports							
			00o 00n	No reports No reports							
7726-95-6	*	Bromine	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	46	112,466	880	7	10	113,363	250	113,613
			98o	52	109,083	7,110	7	7,705	123,905	3	123,908
			98n	4	84	0	0	0	84	2	86
			99o	48	247,390	15	0	7,705	255,110	30,508	285,618
			99n	2	33	0	0	0	33	7,360	7,393
			00o	46	268,547	10	0	40,505	309,062	936	309,998
25(01 (5.7	*	1 D 1	00n	3	57	0	0	18,000	18,057	0	18,057
35691-65-7		1-Bromo-1- (bromomethyl)-	88 95	NR 1	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0
		1,3-propane-	98o	2	0	0	0	0	0	0	0
		dicarbonitrile	98n	No reports	V	O .	V	O	U	V	U
		dicaroomanic	990	4	0	0	0	0	0	0	0
			99n	No reports	Ů	· ·	· ·	ŭ		Ů	Ů
			00o	5	0	0	0	0	0	0	0
			00n	No reports							
353-59-3		Bromochloro-	88	NR	NR	NR	NR	NR	NR	NR	NR
		difluoromethane	95	4	4,811	0	0	0	4,811	0	4,811
		(Halon 1211)	98o	4	3,673	0	0	0	3,673	0	3,673
			98n	No reports	2.050	^		_	2.050	_	2.050
			99o	4	3,979	0	0	0	3,979	0	3,979
			99n	No reports		0	0	0	^	0	0
			00o 00n	4	0 923	0	0	0	923	0	0 923
			UUII	1	923	0	0	Ü	923	U	923

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recy	cled	Energy R	ecovery	Tr	eated	Overtity	Total	Non Buoduo
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
Boron trifluoride	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	425,701	1,027	24,369	451,097	190
	980	0	0	0	35	462,635	15,255	35,396	513,321	449
	98n 99o	No reports 0	0	0	0	509,864	1,130	16,452	527,446	181
	99n	No reports	Ŭ	Ü	v	303,001	1,150	10,132	327,110	101
	00o	0	0	0	31	748,803	1,148	11,232	761,214	25
	00n	No reports								
Bromacil	88	NA 5	NA	NA 0	NA 0	NA 20.697	NA 27.820	NA 27.047	NA	NA 0
	95 98o	5 0	0	0	0	30,687 0	27,829 0	27,947 1,192	86,468 1,192	0
	98n	0	0	0	0	32,434	0	25	32,459	0
	99o	0	0	0	0	0	0	850	850	0
	99n	0	0	0	0	17,343	0	0	17,343	0
	00o	0	0	0	0	0	0	0	0	0
Bromacil, lithium	00n 88	0 NA	0 NA	0 NA	0 NA	20,647 NA	0 NA	0 NA	20,647 NA	0 NA
salt	95	No reports	11/1	IVA	IVA	IVA	11/1	IVA	IVA	IVA
	98o	No reports								
	98n	No reports								
	99o	No reports								
	99n 00o	No reports No reports								
	000 00n	No reports								
Bromine	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	4,960,000	740	0	0	14,808,669	283,435	112,386	20,165,230	28
	98o	5,670,000	230	0	0	18,611,926	20,781	127,333	24,430,270	194
	98n 99o	0 130,800	0 430	0	162,356 0	12,791 906,764	0 483,028	86 254,397	175,233 1,775,419	0 798
	99n	0	2,991	0	0	11,373	465,026	7,393	21,757	0
	00o	319,700	1,697,423	0	0	568,515	347,166	309,092	3,241,896	94
	00n	0	0	0	0	10,452	5	18,057	28,514	0
1-Bromo-1-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
(bromomethyl)- 1,3-propane-	95 98o	0	0	0	0	0 11,000	10,957 9,824	0	10,957 20,824	0
dicarbonitrile	98n	No reports	V	V	V	11,000	7,024	Ŭ	20,024	
	99o	0	0	0	0	0	9,595	0	9,595	0
	99n	No reports								
	00o	0	0	0	0	0	9,570	0	9,570	0
Bromochloro-	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
difluoromethane	95	282,800	0	0	0	0	0	4,832	287,632	0
(Halon 1211)	98o	501,947	0	0	0	0	0	3,673	505,620	174
	98n	No reports								
	99o	485,900	0	0	0	0	0	3,827	489,727	152
	99n 00o	No reports 0	0	0	0	0	0	0	0	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
75-25-2		Bromoform	88 95 980	2 No reports No reports	0	8,600	0	0	8,600	0	8,600
			98n 99o 99n	3 1 1	3 5 2	0 0 1	0 0 0	0 0 0	3 5 3	0 0 4	3 5 7
			00o 00n	No reports 4	7	0	0	0	7	0	7
74-83-9	*	Bromomethane	88 95 980 98n	36 43 45 2	2,784,795 2,601,734 1,556,607 5	0 14 30 0	1,546 3,817 230 0	0 0 11 0	2,786,341 2,605,565 1,556,878 5	0 0 0	2,786,341 2,605,565 1,556,878
			990 99n 00o	43 3 44	1,420,922 186 930,369	29 0 32	0 0	4 0 9	1,420,955 186 930,410	1,603 0 0	1,422,558 186 930,410
			00n	5	2	5	5	0	12	0	12
75-63-8		Bromotrifluoro- methane (Halon 1301)	88 95 980 98n	NR 8 6	NR 33,632 26,842	NR 0 0	NR 0 0	NR 0 0	NR 33,632 26,842	NR 0 0	NR 33,632 26,842
			990 99n	No reports 6 No reports	30,825	0	0	0	30,825	0	30,825
			00o 00n	6	26,061 1,838	0	0	0	26,061 1,838	0	26,061 1,838
1689-84-5	*	Bromoxynil	88	NR	NR	NR	NR	NR	NR	NR	NR
			95 980 98n	1 2 No reports	6 506	0	0	0	6 506	990 1,483	996 1,989
			990 99n 00o	No reports 2	0	0	0	0	0	790 0	793
1 (00 00 2	, de	D ''	00n	No reports		ND	ND	ND	ND	ND) ID
1689-99-2	*	Bromoxynil octanoate	88 95 980	NR 4 5	NR 500 1,566	NR 0 0	NR 0 0	NR 0 0	NR 500 1,566	NR 13,569 14,420	NR 14,069 15,986
			98n 99o 99n	No reports 6 No reports	519	0	0	0	519	8,926	9,445
			00o 00n	5	37 0	0	0 15,462	0	37 15,462	0	37 15,462
357-57-3		Brucine	88	NR	NR	NR	NR	NR	NR	NR	NR
			95 980 98n 990	1 No reports No reports	0	0	0	0	0	0	0
			990 99n 00o	No reports No reports	4	0	0	0	4	153	157
			00n	1	0	0	0	0	0	0	0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

		Recyc	eled	Energy R	ecovery	Tr	eated	Overtita	Total	Non Duoduo
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
Bromoform	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	No reports								
	98o 98n	No reports 0	0	0	0	10,594	2	3	10,599	0
	9811 990	0	0	0	0	216	2 2	1	219	0
	99n	0	0	0	0	18,000	0	1	18,001	0
	00o	No reports				,			ĺ	
	00n	0	0	0	0	25,091	774	7	25,872	0
Bromomethane	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95 08a	165,182	0	101,000	380	4,876,073	0	2,578,001	7,720,636	14.067
	98o 98n	12,780 0	0 0	222,300 0	280 0	488,585 3,007	0 30	1,553,094 1	2,277,039 3,038	14,067 0
	990	295,500	0	273,800	160	947,126	2,455	1,335,442	2,854,483	15,326
	99n	0	0	0	0	178,475	0	187	178,662	0
	00o	85,403	0	267,700	2,800	887,246	46	947,100	2,190,295	15
	00n	0	0	0	0	154,696	724	12	155,432	0
Bromotrifluoro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
methane	95	200,661	0	0	0	0	0	36,155	236,816	805
(Halon 1301)	980 98n	583,803 No reports	0	0	0	0	0	26,592	610,395	6,468
	990	647,796	0	0	0	0	0	29,446	677,242	1,629
	99n	No reports	v	Ü	Ŭ	Ŭ	Ü	25,110	077,212	1,029
	00o	39,480	0	0	0	0	0	24,393	63,873	1,873
	00n	171,374	0	0	0	0	0	1,838	173,212	0
Bromoxynil	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	0	996	996	0
	980 98n	0 No reports	0	0	0	0	0	1,244	1,244	0
	990	0	0	0	0	0	0	790	790	0
	99n	No reports	· ·	V	Ü	Ů	U	170	750	Ů
	00o	0	0	0	0	0	0	0	0	0
	00n	No reports								
Bromoxynil	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
octanoate	95	0	0	0	0	0	173	13,689	13,862	0
	98o 98n	0 No reports	0	0	0	0	40	21,215	21,255	0
	990	0	0	0	0	0	397	13,525	13,922	0
	99n	No reports	Ŭ	Ü	Ŭ	Ŭ	371	15,525	13,722	Ĭ
	00o	0	0	0	0	0	171	3,227	3,398	0
	00n	0	0	0	0	0	0	15,462	15,462	0
Brucine	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	0	0	0	0
	980 08n	0 No reports	0	0	0	0	0	0	0	0
	98n 99o	No reports No reports								
	99n	0	0	0	0	94,553	0	157	94,710	0
	00o	No reports	ŭ	, and the second	Ü	,,,,,,,	· ·	137	,,,,10	ĺ
	00n	0	0	0	0	67,901	0	0	67,901	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

 $^{^{\}star\star}$ Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

			On-site Releases Surface							Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
106-99-0	**	1,3-Butadiene	88	157	7,004,622	522,504	1,500	7,817	7,536,443	185,398	7,721,841
			95	188	3,048,063	5,393	0	277	3,053,733	4,892	3,058,625
			98o	191	2,747,039	8,834	732	7,998	2,764,603	2,067	2,766,670
			98n	6	1,035	0	0	0	1,035	500	1,535
			990	192	1,956,986	1,900	720	127	1,959,733	2,066	1,961,799
			99n	4	2,178	0	0	0	2,178	505	2,683
			00o	192	2,155,211	1,163	850	60,140	2,217,364	185,856	2,403,220
141 22 2		D . 1 1 .	00n	5	10,230	0	0	0	10,230	10.766	10,235
141-32-2		Butyl acrylate	88	166	411,862	3,528	0	602	415,992	18,766	434,758
			95 98o	164 158	230,275 206,776	2,919 7,790	0	559 546	233,753 215,112	73,591 25,473	307,344 240,585
			98n	12	6,009	0,790	0	0	6,009	22,581	28,590
			990	157	241,982	8,747	156	546	251,431	31,763	283,194
			99n	12	3,031	0,747	0	0	3,031	445	3,476
			00o	159	231,172	14,566	271	245	246,254	22,776	269,030
			00n	8	1,841	0	0	0	1,841	6	1,847
71-36-3		n-Butyl alcohol	88	1,109	37,715,221	128,130	3,006,660	175,819	41,025,830	924,519	41,950,349
		, in the second	95	1,125	26,123,933	115,353	2,263,357	4,631	28,507,274	297,608	28,804,882
			98o	1,028	21,680,571	94,523	3,169,538	5,209	24,949,841	382,723	25,332,564
			98n	179	27,073	0	61,068	370	88,511	16,065	104,576
			99o	977	21,051,426	56,286	3,097,813	3,226	24,208,751	654,151	24,862,902
			99n	173	31,534	1	91,230	1,400	124,165	76,700	200,865
			00o	958	19,621,927	35,156	3,783,366	9,977	23,450,426	311,575	23,762,001
			00n	165	29,680	753	56,282	53,500	140,215	65,610	205,825
78-92-2	*	sec-Butyl alcohol	88	92	1,097,163	122,291	0	2,600	1,222,054	21,351	1,243,405
			95	115	908,143	6,782	136,172	2,805	1,053,902	18,376	1,072,278
			980	118	1,007,905	3,950	169,243	7	1,181,105	16,535	1,197,640
			98n 99o	36 109	2,531 902,230	0 11,020	0 145,995	13,000	15,531 1,059,250	50 16,931	15,581 1,076,181
			990 99n	39	2,981	11,020	143,993	13,703	1,039,230	505	17,189
			000	113	773,496	11,924	119,420	15,705	904,841	16,925	921,766
			000 00n	31	1,383	0	0	12,473	13,856	499	14,355
75-65-0	*	tert-Butyl alcohol	88	54	1,574,137	14,989	674,798	818	2,264,742	56,502	2,321,244
			95	91	657,818	20,183	1,082,071	751	1,760,823	30,783	1,791,606
			98o	84	420,564	30,330	861,956	7,352	1,320,202	178,217	1,498,419
			98n	26	25,804	21	0	1,092	26,917	4,029	30,946
			99o	82	366,121	15,354	770,634	751	1,152,860	76,468	1,229,328
			99n	34	31,066	260	0	5	31,331	1,813	33,144
			00o	85	750,386	8,396	766,198	502	1,525,482	107,919	1,633,401
			00n	26	25,024	266	0	0	25,290	7,455	32,745
106-88-7	**	1,2-Butylene	88	18	99,931	3,500	0	250	103,681	898	104,579
		oxide	95	15	11,083	1	0	0	11,084	5	11,089
			98o	13	10,581	8,401	0	0	18,982	0	18,982
			98n	1	11.610	0	0	0	14.021	0	14.021
			990	13	11,619	2,402	0	0	14,021	0	14,021
			99n 00o	1 14	10 7,807	0 5,700	0	0 40	10 13,547	0	10 13,547
			000 00n	14	10	5,700	0	0	13,347	0	13,547
			UUII	1	10	0	0	0	10	U	10

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	<i>эниниеи)</i>		Rec	ycled	Energy	Recovery	Т	reated	0	T-4-1	Non Dunden
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
**	1,3-Butadiene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	5,513,939	13,653,736	31,775,720	34,519	58,474,775	96,310	2,877,071	112,426,070	200,544
		980	5,428,029	15,575,833	15,244,040	260,947	53,274,984	3,918,622	2,730,216	96,432,671	776,815
		98n	0	0	0	218,662	130,866	9,120	1,035	359,683	50.750
		990 99n	5,488,810 0	11,539,996	38,304,604 0	433,581 27,320	52,241,471 232,521	307,643 1,620	1,958,903 2,068	110,275,008 263,529	59,750
		00o	5,231,318	10,902,156	23,915,854	338,110	425,563,794	384,280	2,189,481	468,524,993	59,799
		00n	0,251,510	0	0	488,470	190,771	26,500	10,222	715,963	0
	Butyl acrylate	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	173,995	207,325	4,059,471	1,143,139	4,174,080	228,382	301,235	10,287,627	5,264
		98o	270,060	950	3,912,299	932,014	11,726,284	87,681	225,309	17,154,597	6,129
		98n	0	0	0	91,548	178,664	261	7,554	278,027	0
		990	330,066	1,466	3,045,944	600,039	2,691,675	178,138	265,759	7,113,087	1,406
		99n	0	0	12,753	61,497	237,812	3,797	3,218	319,077	16
		00o 00n	334,515 0	197 0	1,184,188 277,598	203,362 455,763	1,595,380 40,602	191,369 226	254,925	3,763,936 776,628	211
	n-Butyl alcohol	88	NA	NA	277,398 NA	455,765 NA	40,002 NA	NA	2,439 NA	770,028 NA	4 NA
	ii Butyi alconoi	95	8,438,990	3,407,032	24,695,600	8,577,868	38,017,258	3,417,863	28,869,735	115,424,346	52,280
		98o	8,306,964	2,580,773	29,236,373	8,359,539	42,937,109	5,281,467	25,607,070	122,309,295	58,850
		98n	1,680,333	8,376	32,154	9,776,544	1,739,894	962,935	94,634	14,294,870	16
		99o	9,132,673	2,278,340	33,308,342	8,434,431	32,589,970	4,767,663	25,075,184	115,586,603	11,234
		99n	2,619,863	7,646	37,137	4,621,391	2,708,082	1,192,341	127,726	11,314,186	10,355
		00o	13,289,088	2,629,084	25,206,288	9,614,896	31,661,841	4,813,481	24,205,351	111,420,029	8,199
*	D : 1 1 1 1	00n	2,086,783	1,350	23,200	2,638,578	2,615,521	388,879	256,575	8,010,886	117
*	sec-Butyl alcohol	88 95	NA 748,440	NA 24,774	NA 13,041,102	NA 6,275,927	NA 2,249,797	NA 125 101	NA 1,089,469	NA 23,554,610	NA 2,800
		93 980	171,903	9,319	10,701,253	1,012,818	1,532,676	125,101 253,034	1,089,469	14,888,912	2,800
		98n	220	0,519	0	246,002	49	236,962	15,367	498,600	0
		990	380,567	76,228	12,708,755	992,985	1,394,860	140,513	1,084,188	16,778,096	0
		99n	14	0	0	416,457	51,604	35,246	16,203	519,524	0
		00o	414,276	17,826	11,128,795	987,167	1,948,603	320,935	931,976	15,749,578	1,105
		00n	27	0	0	4,704	12,885	4,209	14,640	36,465	0
*	tert-Butyl alcohol	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	466,023	2,256	64,310,733	27,469,833	2,447,778	1,794,551	2,230,055	98,721,229	2,086
		980	662,776	231,209	37,637,302	7,506,442	2,331,750	1,841,732	1,494,130	51,705,341	58 15
		98n 99o	31,188 658,568	200 19,879	0 38,801,186	3,841,737 8,108,339	129,572 1,673,758	11,110 1,754,071	23,110 1,567,501	4,036,917 52,583,302	21,101
		99n	50,563	122	0	898,535	258,975	35,514	29,908	1,273,617	21,101
		00o	1,200,979	12,929	18,304,607	7,979,985	2,052,426	2,214,434	1,621,955	33,387,315	297
		00n	54,221	87	0	580,122	1,393,079	4,967	25,168	2,057,644	2,530
**	1,2-Butylene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	oxide	95	0	990	0	330,194	329,270	93	10,804	671,351	0
		98o	1	0	0	275,443	498,660	307	18,815	793,226	0
		98n	0	0	0	50	0	35	1	86	0
		99o	2	0	0	282,059	382,495	620	14,294	679,470	0
		99n	0	0	0	150	154.042	720	12 520	157	0
		00o 00n	0	0	0	316,541 100	154,942	730 0	13,530 101	485,743 201	0 0
		oon	0	0	0	100	0	0	101	201	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commu							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
123-72-8	*	Butyraldehyde	88 95 980 98n 990 99n 000	26 29 32 1 34 No reports 31	2,218,692 291,440 289,834 122 295,543 403,531	3,812 821 618 0 466	1,997 149,783 29,000 0 29,003	31 10 1,478 0 149,000	2,224,532 442,054 320,930 122 474,012 436,204	117,741 41 1,663 3 6,827	2,342,273 442,095 322,593 125 480,839 448,408
7440-43-9	**	Cadmium	00n 88 95 980 98n 990 99n 000 00n	90 48 51 20 47 19 47	22,430 12,217 2,129 1,318 2,397 1,920 2,021 271	2,598 462 542 0 691 0 792	0 0 0 166,607 0 61,000 0 69,000	94,602 19,860 158,670 2,282,416 31,889 1,628,788 2,730 661,165	119,630 32,539 161,341 2,450,341 34,977 1,691,708 5,543 730,436	155,313 90,519 92,327 60,410 41,159 319,054 7,501 157,137	274,943 123,058 253,668 2,510,751 76,136 2,010,762 13,044 887,573
	**	Cadmium compounds	88 95 980 98n 990 99n 000 00n	117 120 95 39 94 37 102 31	118,978 54,853 68,890 16,392 29,835 4,006 25,772 4,520	1,549 948 923 1,218 1,501 765 8,145 610	2,409 34,109 130,033 96,875 23 100,000 34 110,250	294,877 797,916 778,483 7,912,729 656,007 9,835,672 595,799 5,583,238	417,813 887,826 978,329 8,027,214 687,366 9,940,443 629,750 5,698,618	1,067,942 1,743,893 1,727,155 290,254 676,199 171,645 2,074,910 413,761	1,485,755 2,631,719 2,705,484 8,317,468 1,363,565 10,112,088 2,704,660 6,112,379
156-62-7	*	Calcium cyanamide	88 95 980 98n 990 99n 000 00n	3 5 4 No reports 4 No reports 3 No reports	12,600 10 134 250 250	0 0 0	0 0 0	66,000 0 0 0	78,600 10 134 250 250	0 0 0	78,600 10 134 250 250
133-06-2	*	Captan	88 95 980 98n 990 99n 000 00n	18 15 11 3 13 1 13	14,869 7,280 9,211 2 5,111 0 4,120	750 5 5 0 5 0 5	5,100 0 0 0 0 0 0 0	1,000 5 0 0 0 0 0	21,719 7,290 9,216 2 5,116 0 4,125	12,434 3,868 1,761 138 1,070 27 1,985	34,153 11,158 10,977 140 6,186 27 6,110
63-25-2	*	Carbaryl	88 95 980 98n 990 99n 000 00n	23 21 22 3 15 3 15	7,923 7,824 7,824 7 5,276 4 4,589	877 10 10 0 5 0 5	0 0 0 0 0 0 0	500 1,060 100 0 8,405 11,743 0	9,300 8,894 7,934 7 13,686 11,747 4,594	6,198 26,861 9,156 132 41,376 27 4,085	15,498 35,755 17,090 139 55,062 11,774 8,679

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

			Recy	cled	Energy R	ecovery	Tr	eated	Quantity	Total	Non Duoduo
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
*	Butyraldehyde	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	1,300	2,545,861	22,000	1,982,004	169,714	440,778	5,161,657	7
		98o	1,500	31,000	2,136,982	20,760	1,928,392	651,126	317,716	5,087,476	5,207
		98n	0	1 200	1,000,200	19,950	392 7,983,588	409	122	20,873	01 117
		99o 99n	1,500	1,200	4,909,209	40,812	7,983,388	176,272	409,140	13,521,721	81,117
		99n 00o	No reports 0	1,200	3,177,064	544,327	2,198,817	503,656	477,280	6,902,344	831
		00n	No reports	1,200	3,177,001	311,327	2,170,017	203,030	177,200	0,702,511	051
**	Cadmium	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	1,471,697	545,490	29,191	633	91,725	53,384	74,476	2,266,596	3,911
		98o	1,101,823	320,139	0	0	27,779	52,294	276,432	1,778,467	9,410
		98n	0	8,110	0	0	0	10,742	2,462,721	2,481,573	0
		99o	88,054	202,689	0	0	29,363	11,102	120,187	451,395	0
		99n	143,393	139,104	0	0	0	471	1,699,147	1,982,115	10
		00o	17,347	153,064	0	0	28,917	15,459	96,262	311,049	0
**	~	00n	0	10,495	0	0	0	201,042	754,618	966,155	0
**	Cadmium	88	NA	NA	NA	NA	NA 07.602	NA	NA	NA	NA
	compounds	95	8,221,097	1,482,852	0	1,082	87,602	138,528	2,509,561	12,440,722	11,697
		980 98n	2,561,776 4,761	643,605 72,129	0	5,236 0	3,225 3,000	47,340 4,772	3,218,632	6,479,814 8,401,872	59,618 85
		990	3,004,157	636,397	0	212	3,000 4,654	19,971	8,317,210 1,824,458	5,489,849	39,149
		99n	77,582	28,769	0	0	0	1,050	6,644,038	6,751,439	120,000
		00o	3,275,097	792,926	0	0	5,151	109,813	2,706,184	6,889,171	28,937
		00n	67,228	14,630	0	0	69,970	129	6,031,676	6,183,633	51,000
k	Calcium	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	cyanamide	95	0	0	0	0	0	0	6	6	0
		98o	0	0	0	0	0	0	130	130	0
		98n	No reports								
		99o	0	0	0	0	0	0	26	26	0
		99n	No reports				_				
		00o	0	0	0	0	0	0	43	43	0
k	Conton	00n 88	No reports NA	NA	NA	NA	NA	NIA	NA	NA	NA
	Captan	95	5,070	0	0	0	9,834	NA 1,072	7,479	23,455	0
		93 980	2,697	0	0	0	9,000	3,944	11,297	26,938	0
		98n	0	0	0	0	68,416	0	140	68,556	0
		990	2,314	0	0	0	9,000	17,910	9,922	39,146	0
		99n	0	0	0	0	66,081	0	27	66,108	0
		00o	1,947	0	0	0	9,000	6,418	8,240	25,605	0
		00n	0	0	0	0	78,768	111	0	78,879	0
*	Carbaryl	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	36,618	0	0	0	467,593	7,885	32,697	544,793	0
		98o	80,456	0	79,931	0	365,862	24,121	14,478	564,848	100
		98n	0	0	0	0	77,947	0	139	78,086	0
		990	71,825	0	64	0	373,282	11,446	7,907	464,524	0
		99n	06,000	97	0	0	133,259	0 17 426	11,774	145,130	0
		00o	96,000	0	5 0	0	358,313 155,960	17,426	14,838	486,582 157,054	0
		00n	0	0	0	0	155,900	1,093	1	157,054	0

Note: Data from Section 8 (Current Year) of Form R.

980, 990 and 000 are data from original industries; 98n, 99n and 00n are data from new industries. NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(000000							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
1563-66-2	*	Carbofuran	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	7	4,187	2	0	250	4,439	250	4,689
			98o	4	2,921	1	0	0	2,922	0	2,922
			98n	3	16	0	0	0	16	2	18
			99o 99n	4 2	824 10	112 0	0	0	936 10	0 23	936 33
			000	4	1,618	5	0	0	1,623	0	1,623
			00n	2	10	0	0	0	10	0	10
75-15-0	*	Carbon disulfide	88	88	124,109,904	39,501	13,400	43,436	124,206,241	58,473	124,264,714
			95	92	84,114,225	39,864	33,644	265	84,187,998	2,949	84,190,947
			98o	98	43,433,930	4,687	16,599	1,651	43,456,867	5,801	43,462,668
			98n	6	924	1	0	0	925	24	949
			990	108	35,906,456	6,548	16,110	256	35,929,370	2,730	35,932,100
			99n	6	262	1	0	0	263	33	296
			000	110	40,584,051	3,699	17,456	2,874	40,608,080	2,800	40,610,880
56-23-5	* **	Carbon	00n 88	5 95	909 3,795,248	5 15,627	98,050	14,759	914 3,923,684	420 49,703	1,334 3,973,387
30-23-3	, , ,	tetrachloride	95	71	420,754	717	53,966	14,739	475,437	7,735	483,172
		tetraemoriae	98o	55	274,291	2,586	23,163	1,679	301,719	9,956	311,675
			98n	15	954	250	5	0	1,209	10,295	11,504
			99o	57	230,654	84	27,548	938	259,224	7,307	266,531
			99n	13	2,334	1	0	0	2,335	9,259	11,594
			00o	51	283,476	179	18,628	837	303,120	1,911	305,031
			00n	11	575	5	43,575	0	44,155	372	44,527
463-58-1		Carbonyl sulfide	88	38	25,954,103	0	0	0	25,954,103	0	25,954,103
			95 98o	64 85	17,949,317	0	0	0	17,949,317	0	17,949,317
			980 98n	1	19,845,594 0	0	0	0	19,845,594 0	0 0	19,845,594 0
			990	104	21,345,396	0	0	0	21,345,396	0	21,345,396
			99n	No reports	21,5 15,550	· ·	· ·	· ·	21,5 15,590		21,5 15,570
			00o	106	21,939,968	0	0	0	21,939,968	0	21,939,968
			00n	No reports							,
5234-68-4	*	Carboxin	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	3	8	0	0	0	8	428	436
			980	3	5	0	0	0	5	17	22
			98n	No reports	_	0	0	0	-	154	150
			99o 99n	4 N	5	0	0	0	5	154	159
			99n 00o	No reports 4	4	0	0	0	4	118	122
			00n	No reports		V	O .	O .	7	110	122
120-80-9	**	Catechol	88	113	3,789	320,546	0	84,332	408,667	89,474	498,141
			95	127	3,457	24,747	0	3,479	31,683	563	32,246
			98o	140	5,346	24,422	0	1,032	30,800	914	31,714
			98n	4	3	0	0	0	3	24	27
			99o	138	6,802	29,119	0	968	36,889	2,996	39,885
			99n	2	235	0	0	0	235	46	281
			00o	140	7,870	18,207	0	605	26,682	2,624	29,306
			00n	1	0	0	0	0	0	0	0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

Continueuj		Recy	cled	Energy I	Recovery	Т	reated	0	T-4-1	Non Donadora
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
* Carbofuran	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	1	3	47,158	5,422	52,584	1
	980	0	0	0	0	3	35,601	2,922	38,526	275
	98n 99o	0	0	0	0	243,290 0	0 19,615	15 14,111	243,305 33,726	0
	99n	0	0	0	0	162,525	0	25	162,550	0
	00o	38,200	0	0	0	38,200	34,376	1,073	111,849	0
	00n	0	0	0	0	68,769	166	1	68,936	0
* Carbon disulfide	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	20,874,450	18	4,819,910	368,509	18,092,770	361,938	84,811,829	129,329,424	154,890
	98o	30,024,800	1,985	7,976,912	216,999	32,970,651	239,776	43,246,951	114,678,074	24,332
	98n	0	0	0	25,038	779,188	11,922	849	816,997	0
	99o	25,913,004	1,067	7,337,634	99,958	38,583,243	454,153	35,856,173	108,245,232	22,514
	99n	0	0	0	0	530,976	120.512	290	531,266	0
	00o 00n	32,143,299 0	494 0	6,826,636 0	115,546 0	47,336,640 570,040	138,513 9,112	40,612,562 981	127,173,690 580,133	22,401 0
*.** Carbon	88	NA	NA	NA	NA NA	370,040 NA	9,112 NA	NA	NA	NA NA
tetrachloride	95	1,837,422	365,067	317,149	50,068	52,608,819	733,254	463,274	56,375,053	34,522
tetraemonae	98o	2,218,866	2,075,495	808,627	43,116	13,865,412	462,232	299,092	19,772,840	4,827
	98n	4,399	0	468,751	277,751	985,513	2,580,491	4,735	4,321,640	0
	99o	7,066,850	3,197,695	369,334	24,319	16,308,400	688,463	224,524	27,879,585	28,179
	99n	0	0	500,408	67,656	1,818,361	37,175	6,228	2,429,828	0
	00o	2,131,751	2,695,645	1,859,983	21,709	350,059,305	584,687	293,832	357,646,912	30,690
	00n	0	0	798,414	753	1,410,182	4,198	44,364	2,257,911	0
Carbonyl sulfide	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95 98o	0	0	1,191,378	0	14,572,854	16,000	18,793,662	34,573,894	1
	980 98n	0	0	1,786,678 0	0	18,891,421 0	0	19,997,099 0	40,675,198 0	2 0
	990	0	0	2,858,145	0	77,887,924	0	21,523,998	102,270,067	5,711
	99n	No reports	Ů,	2,030,143	· ·	77,007,724	Ü	21,323,770	102,270,007	3,711
	00o	0	0	2,495,008	0	81,436,026	0	22,092,792	106,023,826	5,580
	00n	No reports		, ´ ´		, , ,		, ´ ´	, ,	ĺ
* Carboxin	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	2,817	0	0	0	0	402	436	3,655	0
	98o	1,110	0	0	0	0	218	22	1,350	0
	98n	No reports	0		^		60	150	1.757	^
	990	1,538	0	0	0	0	60	159	1,757	0
	99n 00o	No reports 1,162	0	0	0	0	596	120	1,878	0
	000 00n	No reports	0	U	0	U	390	120	1,0/8	
** Catechol	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	7,145,990	94,995	1,481,057	54,221	68,220	8,844,483	2,772
	98o	0	0	9,717,608	117,794	4,437,794	50,640	35,112	14,358,948	0
	98n	0	0	3,384	0	9,997	0	27	13,408	0
	99o	0	4,594	10,920,586	114,131	3,849,537	79,492	82,683	15,051,023	1
	99n	0	0	0	25,880	867	21,036	236	48,019	0
	00o	0	35,136	6,293,994	72,241	2,294,966	174,898	28,749	8,899,984	54
	00n	0	0	0	0	0	0	0	0	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

 $^{^{\}star\star}$ Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

	-						On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
2439-01-2	*	Chinomethionat	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
133-90-4	*	Chloramben	88 95 980 98n 990 99n 000 00n	No reports	1,418	250	0	0	1,668	1,159	2,827
57-74-9	*,**	Chlordane	88 95 980 98n 990 99n	2 1 No reports 7 No reports 4	2,698 823 45	4 22 0	4,262 0 20,106	0 0 25,548	6,964 845 45,699	0 0 22 40	6,964 845 45,721
		Not comparable to prior years***	00o 00n	3 18	0.00 13.70	0.00	0.00 0.00	0.00 8,947.74	0.00 8,961.44	0.00 828.59	0.00 9,790.03
115-28-6	**	Chlorendic acid	88 95 980 98n 990	NR 1 2 No reports	NR 6 30	NR 0 0	NR 0 0	NR 0 0	NR 6 30	NR 0 0	NR 6 30
			99n 00o 00n	No reports 2 No reports	34	0	0	0	34	0	34
90982-32-4	*	Chlorimuron ethyl	88 95 980 98n 990 99n 000 00n	NR 1 2 No reports 2 No reports 2 No reports 1	NR 1 3 27	NR 0 0 0	NR 0 0 0	NR 0 0 0	NR 1 3 27	NR 0 0 0	NR 1 3 27
7782-50-5	*	Chlorine	88 95 980 98n 990 99n 000 00n	1,800 1,381 1,197 152 1,117 133 1,062 133	133,085,601 65,736,426 59,615,387 73,691 48,998,400 206,861 45,483,946 114,188	6,622,187 442,215 252,747 168,797 341,525 63,090 264,000 17,508	107,624 74,124 81,637 27,639 75,710 0 167,321	439,547 13,095 56,122 154,480 55,320 55,359 216,220 55,443	140,254,959 66,265,860 60,005,893 424,607 49,470,955 325,310 46,131,487 187,139	1,003,531 12,286 27,260 3,000 7,745 59,367 15,949 36,919	141,258,490 66,278,146 60,033,153 427,607 49,478,700 384,677 46,147,436 224,058

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	Chemical Yea		Recy	cled	Energy R	Recovery	Т	reated	0	T-4-1	Nam Danida
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
*	Chinomethionat	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
*	Chloramben	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
,:	*Chlordane	88 95	NA 0	NA 0	NA 0	NA 0	NA 5,150	NA 95	NA 845	NA 6,090	NA 0
		980 98n 990	No reports 0 No reports	0	0	25,778	187,264	35	45,721	258,798	0
	NI / 11	99n	0	0	0	0	470,719	114	46	470,879	0
	Not comparable to prior years***	00o 00n	0.00 0.00	0.00 0.00	230.00 0.00	0.00	190.00 812,132.92	50.00 5,636.05	0.00 9,010.26	470.00 826,779.23	0.00 0.00
**	Chlorendic acid	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	0	0	488	6	494	0
		98o	0	0	0	0	0	567	30	597	0
		98n 99o	No reports 0	0	0	0	0	157	32	189	0
		99n	No reports	0		0		(01	2.4	725	
		00o 00n	0 No reports	0	0	0	0	691	34	725	0
*	Chlorimuron ethyl	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	0	0	5,838	1	5,839	0
		980 98n	0 No reports	0	0	0	0	33,861	3	33,864	0
		990	0	0	0	0	0	11,885	27	11,912	0
		99n	No reports					ŕ			
		00o	2,612	0	0	0	0	5,388	12	8,012	0
*	Chlorine	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	84,986,469	1,791,968	499	1,467	219,882,098	1,178,309	66,257,554	374,098,364	13,336
		98o	71,480,719	88,349	0	50,291	249,338,970	943,223	60,040,270	381,941,822	9,263
		98n	760,238	0 02.025	0	0	4,537,933	26,089	405,113	5,729,373	578
		99o 99n	68,617,968 3,029,901	83,825 0	2 0	60,645 0	211,832,099 3,730,760	730,444 87,594	49,433,429 340,448	330,758,412 7,188,703	20,526 42
		99n 00o	187,785,135	20,685	14,176,058	3,984	744,341,490	87,394 779,057	46,066,960	993,173,369	4,443
			3,907,523	-,	,,	-,	4,290,180	, ,	187,438	8,385,141	.,

 $\textbf{Note:} \ \mathsf{Data} \ \mathsf{from} \ \mathsf{Section} \ \mathsf{8} \ (\mathsf{Current} \ \mathsf{Year}) \ \mathsf{of} \ \mathsf{Form} \ \mathsf{R}.$

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

							On-site Releases			Off-site Releases	
CAS Number	Chem	nical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
10049-04-4 79-11-8		ine dioxide	88 95 980 98n 990 99n 000 00n	122 127 118 4 114 4 112 5	12,251,050 1,305,279 1,005,717 13,000 968,851 5,200 739,315 3,700 26,819	2,350 5 71 510 109 764 277,747 584 850	0 0 0 0 0 0 0 0	41,000 0 0 0 5 0 0 0	12,294,400 1,305,284 1,005,788 13,510 968,965 5,964 1,017,062 4,284 27,679	41,750 0 0 0 0 0 0 0 0 0 2,506	12,336,150 1,305,284 1,005,788 13,510 968,965 5,964 1,017,062 4,284 30,185
522 27 4	* 2 <u>-</u> Chl		95 980 98n 990 99n 000 00n	31 25 1 21 No reports 23 No reports	6,474 3,585 0 4,565 3,183	16 16 0 17	0 0 0 0	0 0 0 0 0	6,490 3,601 0 4,582 3,500	600 500 0 328 250	7,090 4,101 0 4,910 3,750
532-27-4	pheno	oroaceto- one	88 95 980 98n 990 99n 000 00n	No reports							
4080-31-3	3,5,7- azonia	antane	88 95 980 98n 990 99n 000 00n	NR 7 16 No reports 12 No reports 13 No reports	NR 93 437 217	NR 10 11 11	NR 0 0 0	NR 521 653 509 349	NR 624 1,101 737 466	NR 2,514 5,138 5,769 14,240	NR 3,138 6,239 6,506 14,706
106-47-8	*,** p-Chl	oroaniline	88 95 980 98n 990 99n 000 00n	NR 4 4 1 4 1 5 2	NR 267 6,181 20 131 1 442	NR 827 12 0 337 0 60	NR 0 0 0 0 0 0 0	NR 0 0 0 0 0 0 0	NR 1,094 6,193 20 468 1 502 4	NR 11 0 0 0 0 0 5	NR 1,105 6,193 20 468 1 507 4
108-90-7	* Chlore	obenzene	88 95 980 98n 990 99n 000 00n	66 62 75 18 75 17 72	4,375,887 1,132,073 774,102 1,130 675,741 2,149 695,311 2,850	98,354 1,850 662 250 1,433 1 469 5	84,457 27,405 184,106 250 113,526 62,018 80,008 137,859	4,127 5 16 0 214 0 1,206	4,562,825 1,161,333 958,886 1,630 790,914 64,168 776,994 140,714	117,624 92,582 19,763 1,870 16,217 15,448 16,115 1,468	4,680,449 1,253,915 978,649 3,500 807,131 79,616 793,109 142,182

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recy	cled	Energy I	Recovery	Т	reated	Quantity	Total	Non-Produc-
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Production- related Waste Managed Pounds	tion-related Waste Managed Pounds
* Chlorine dioxide	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	2,484,920	0	0	0	40,571,008	0	1,326,713	44,382,641	3,932
	98o	2,725,788	0	0	0	48,701,526	6,000	1,050,006	52,483,320	860
	98n	0	0	0	0	0	0	13,510	13,510	200
	99o 99n	722,759 0	0	0	0	48,746,241 0	0	992,541 5,964	50,461,541 5,964	260
	9911 000	700,467	0	0	0	22,698,297	0	755,819	24,154,583	2,589
	00n	0	0	0	0	0	0	4,284	4,284	2,309
* Chloroacetic acid	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	25,013	0	0	0	1,342,493	2,726	6,607	1,376,839	0
	98o	85,721	0	0	0	1,209,175	568	3,250	1,298,714	0
	98n	0	0	0	0	10,132	0	0	10,132	0
	990	83,319	0	0	0	867,368	1,419	4,768	956,874	0
	99n	No reports	0	(2.010	0	1 127 507	1.022	2 192	1 252 925	
	00o 00n	46,315	0	63,818	0	1,137,587	1,933	3,182	1,252,835	0
* 2-Chloroaceto-	88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
phenone	95	No reports	11/21	1421	1421	1471	1 42 1	1421	1421	1421
phonone	98o	No reports								
	98n	No reports								
	99o	No reports								
	99n	No reports								
	00o	No reports								
* 1_(3_Chloroallyl)_	00n	No reports	37.	27.1	27.1	27.1	27.4	27.1	37.	27.1
1-(3-Ciliofoaliyi)-	88	NA 2.700	NA	NA	NA	NA	NA	NA	NA	NA
3,5,7-triaza-1- azoniaadamantane	95 98o	2,700 78,111	0	0	0	720 2,310	4,700 12,150	3,570 6,753	11,690 99,324	0
chloride	98n	No reports	U	U	U	2,310	12,130	0,733	99,324	"
emoriae	990	31,211	0	0	0	1,834	331,049	6,541	370,635	0
	99n	No reports	ŭ	Ü	Ü	1,00	221,0.5	0,5 .1	2,0,055	
	00o	26,419	0	0	0	1,414	28,161	16,153	72,147	0
	00n	No reports								
*,** p-Chloroaniline	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	540	0	120,301	940	121,781	0
	98o	0	0	46,000	520	0	6,424	16,097	69,041	0
	98n 99o	0	0	0 570,000	0 1,372	25,861 1,112	0 7,396	20 471	25,881 580,351	0
	990 99n	0	0	370,000	1,3/2	1,112	7,396	4/1	17,937	0
	00o	0	0	74,005	910	1,984	10,947	499	88,345	0
	00n	0	0	0	54,903	17,936	0	4	72,843	0
* Chlorobenzene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	9,123,869	1,016,982	2,099,757	1,366,145	11,231,684	1,503,368	1,242,678	27,584,483	20,610
	98o	1,107,325	976,071	5,490,480	3,476,264	10,333,365	4,804,121	983,806	27,171,432	831
	98n	260,432	0	20,907	81,425	1,819,899	1,302	2,040	2,186,005	0
	99o	4,394,439	6,186,066	4,355,424	1,518,569	6,283,038	1,640,671	784,133	25,162,340	16,456
	99n	443,673	059.097	8,156	287,236	2,576,220	1,174	64,394	3,380,853	10
	00o	2,002,240	958,087	4,696,214	1,995,214	9,704,530 1,989,903	1,233,084	789,731	21,379,100	144
	00n	516,228	16,013	3,046	127,276	1,709,903	20,239	140,622	2,813,327	1 0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
510-15-6	*	Chlorobenzilate	88 95 980	No reports No reports No reports							
			98n 99o	No reports	0	0	0	0	0	0	0
			99n 00o 00n	No reports 2	0	0	0	0	0	10	0
75-68-3		1-Chloro-1,1-di-	88	NR	NR	NR	NR	NR	NR	NR	NR.
13-00-3		fluoroethane	95	25	6,954,443	771	6	0	6,955,220	21,600	6,976,820
		(HCFC-142b)	980	28	5,529,844	40	0	0	5,529,884	4,979	5,534,863
		(1101 0 1 120)	98n	3	11	0	0	0	11	614	625
			990	29	5,644,136	44	0	0	5,644,180	4,989	5,649,169
			99n	6	24	0	0	0	24	119	143
			00o	28	5,654,557	34	0	0	5,654,591	4,688	5,659,279
			00n	2	10	0	0	0	10	5	15
75-45-6	*	Chlorodifluoro-	88	NR	NR	NR	NR	NR	NR	NR	NR
		methane	95	245	12,625,766	2,279	22	1	12,628,068	55,084	12,683,152
		(HCFC-22)	980 98n	247	9,115,189	3,652 0	0	1 0	9,118,842	51,648	9,170,490 64,602
			990	1 256	64,602 8,485,338	3,652	0	1	64,602 8,488,991	0 67,799	8,556,790
			990 99n	5	108,930	0	0	0	108,930	07,799	108,930
			00o	253	8,507,831	2,891	0	1	8,510,723	57,125	8,567,848
			00n	3	103,249	0	0	0	103,249	0	103,249
75-00-3		Chloroethane	88	50	4,907,292	27,448	1,510	1	4,936,251	32,260	4,968,511
			95	55	2,890,354	2,320	0	116	2,892,790	4,400	2,897,190
			98o	59	2,198,423	1,024	67	50	2,199,564	3,900	2,203,464
			98n	2	16	0	0	0	16	3	19
			990	56	2,134,114	261	130	0	2,134,505	2,309	2,136,814
			99n	No reports	2 0 / 7 0 / 7	602	110	0	2 0 6 0 6 7 0	24.640	2 102 200
			00o 00n	59 1	2,067,847 0	693 0	110 0	0	2,068,650 0	34,649 0	2,103,299 0
67-66-3	* * *	* Chloroform	88	169	25,988,609	1,114,965	36,000	68,647	27,208,221	143,124	27,351,345
07 00 5	,	Cinorororiii	95	163	10,437,331	332,473	33,276	4,297	10,807,377	6,647	10,814,024
			98o	140	6,289,554	127,314	44,102	12,349	6,473,319	42,857	6,516,176
			98n	20	1,731	5	5	0	1,741	3,221	4,962
			99o	132	5,261,703	86,238	59,399	11,776	5,419,116	32,532	5,451,648
			99n	22	3,231	1	64,297	0	67,529	59,348	126,877
			00o	113	3,442,205	56,331	42,926	12,648	3,554,110	9,254	3,563,364
74 97 2	*	Chlamanatha	00n	19	2,096	115.005	183,816	1,131	187,053	2,016	189,069
74-87-3	-r	Chloromethane	88 95	81 111	11,567,647 4,394,877	115,985 57,430	165,250 50,198	0 35	11,848,882 4,502,540	59,140 1,557	11,908,022 4,504,097
			93 980	103	2,652,015	1,747	294,101	62	2,947,925	952	2,948,877
			98n	9	2,812	0	0	0	2,812	7	2,819
			990	99	2,777,228	2,159	158,680	53	2,938,120	2,194	2,940,314
			99n	11	1,150	0	0	8,228	9,378	4,456	13,834
			00o	96	1,909,293	1,177	164,490	135	2,075,095	1,287	2,076,382
			00n	13	1,630	10	5	1,097	2,742	8,326	11,068

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

⁹⁸o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recy	cled	Energy R	Recovery	Т	reated	0	T-4-1	Non Donadon
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Production-related Waste Managed Pounds
* Chlorobenzilate	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95 08-	No reports								
	980 98n	No reports 0	0	0	0	0	0	0	0	0
	990	No reports	Ŭ	Ü	v	Ĭ	v	Ŭ		
	99n	0	0	0	0	41,000	0	9	41,009	0
	00o	No reports	0	0	0	16.020	071	0	17.700	
1-Chloro-1,1-di-	00n 88	0 NA	0 NA	0 NA	0 NA	16,838 NA	871 NA	0 NA	17,709 NA	0 NA
fluoroethane	95	52,560	0	0	320	304,070	26,330	6,933,797	7,317,077	459
(HCFC-142b)	98o	67	0	0	5,400	534,586	165,589	5,537,482	6,243,124	102
	98n	0	0	0	0	136,697	0	625	137,322	0
	990	12,089,067	0	0	142,321	537,217	190,798	5,577,057	18,536,460	12
	99n 00o	0 48,356,067	0	0	0 101,208	591,193 829,773	0 142,684	124 5,671,808	591,317 55,101,540	0 3,815
	000 00n	48,330,007	0	0	0	459,866	142,064	7,071,808	459,873	0,013
* Chlorodifluoro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
methane	95	2,374,126	242,386	0	27,002	401,771	258,992	12,514,538	15,818,815	196,353
(HCFC-22)	980	698,765	168,042	0	237	505,214	291,198	9,265,296	10,928,752	125,554
	98n	0	0	0	0	0	0	63,090	63,090	1,512
	990 99n	867,732 3	472,424 0	0	2,422	346,748 12,715	203,402 1,114	8,578,738 108,966	10,471,466 122,798	28,168 0
	000	1,159,592	504,028	0	1,884	549,878	741,991	8,581,260	11,538,633	98,148
	00n	0	0	0	0	0	1,088	98,257	99,345	4,800
Chloroethane	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	2,321,094	155,726	13,500,359	45,855	28,074,197	492,722	2,896,879	47,486,832	8,570
	980 98n	5,135,802 0	170,083 0	11,263,574 0	17,934 0	35,499,891 48,025	337,212 14	2,206,187 15	54,630,683 48,054	134
	990	535,427	429,824	22,516,043	119,801	28,690,272	504,451	2,135,609	54,931,427	1,400
	99n	No reports	,	,	,	,,,,,,,,	,	_,,	- 1,2 - 2, 1 - 7	-,
	00o	485,765	260,018	37,990,489	238,935	22,965,104	475,183	2,072,145	64,487,639	543
t. dat. C1.1	00n	0	0	0	0	0	0	0	0	0
*,**Chloroform	88	NA	NA 175 712	NA 17 100 210	NA	NA	NA	NA	NA	NA 27 205
	95 98o	5,138,816 6,749,489	175,713 1,871,565	17,199,219 5,133,726	103,558 164,858	17,287,361 16,257,850	2,062,169 1,722,215	10,772,048 6,485,048	52,738,884 38,384,751	27,205 21,622
	98n	35,795	0	1,650	297,085	1,473,283	2,406,427	3,118	4,217,358	3
	99o	8,936,153	2,756,665	1,606,655	89,563	25,581,243	2,025,068	5,395,469	46,390,816	51,610
	99n	222,080	0	18,133	468,149	2,136,199	187,350	70,520	3,102,431	53
	00o	8,150,949	2,017,857	3,803,728	108,108	129,143,891	1,944,730	3,494,064	148,663,326	32,260
* Chloromothono	00n	101,459	0	0	196,256	2,760,021	71,314	186,013	3,315,063	136
* Chloromethane	88 95	NA 2,803,788	NA 650	NA 4,517,896	NA 4,505	NA 14,364,776	NA 240,406	NA 4,522,298	NA 26,454,319	NA 7,916
	98o	3,447,064	23,740	4,341,426	17,950	8,368,825	292,447	2,933,141	19,424,593	12,001
	98n	0	0	0	0	342,535	1,997,213	2,861	2,342,609	0
	990	3,323,864	1	5,274,618	2,063	13,727,873	234,595	2,937,142	25,500,156	2,715
	99n	0	0	0	57.100	363,375	110.666	13,928	377,303	33,695
	00o 00n	2,485,615 14,710	0	5,631,223 79	57,198 12,780	118,166,414 313,947	119,666 1,204	2,066,517 1,466	128,526,633 344,186	8,398 0
	OOH	14,/10	U	/9	12,780	313,94/	1,204	1,400	344,100	1 0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

 $^{^{\}star\star}$ Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commu							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
107-30-2	**	Chloromethyl methyl ether	88 95 980 98n 990 99n 000 00n	4 3 2 1 2 3 1 3	3,033 2,865 1,000 0 1,300 70 1,350	0 10 0 0 0 1 0	0 0 0 0 0 0	0 0 0 0 0 0 0	3,033 2,875 1,000 0 1,300 71 1,350	0 70 0 0 0 169 0	3,033 2,945 1,000 0 1,300 240 1,350
563-47-3	**	3-Chloro-2- methyl-1-propene	88 95 980 98n 990 99n 000 00n	NR 3 No reports 4 No reports 3 No reports	NR 19,859 7,353 8,716 8,540	NR 0 0 0 0	NR 0 0 0 0 0	NR 0 0 0	NR 19,859 7,353 8,716 8,540	NR 0 0 0	NR 19,859 7,353 8,716 8,540
	**	Chlorophenols	88 95 980 98n 990 99n 000 00n	9 9 6 5 8 3 6 2	2,573 4,997 4,864 16 3,519 1 604	272 30 36 0 75 0 100	71,554 105,687 73,548 0 59,159 0 31,593	0 0 0 0 2 0 1	74,399 110,714 78,448 16 62,755 1 32,298	2 958 8,013 4,175 3,339 285 1,816	74,401 111,672 86,461 4,191 66,094 286 34,114
104-12-1		p-Chlorophenyl isocyanate	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
76-06-2	*	Chloropicrin	88 95 980 98n 990 99n 000 00n	NR 15 16 1 15 1 13	NR 11,472 7,560 4 6,647 4 7,647	NR 0 0 0 0 0 0	NR 0 0 0 0 0 0 0	NR 0 0 0 0 0 0	NR 11,472 7,560 4 6,647 4 7,647	NR 36 270 0 1 0 0	NR 11,508 7,830 4 6,648 4 7,647
126-99-8	**	Chloroprene	88 95 980 98n 990 99n 000 00n	13 15 13 2 10 1 14 No reports	1,948,008 983,932 977,770 528 906,891 255 974,421	287 0 0 0 0 0 0	68,792 60,000 100,000 0 29,000 0 47,000	0 5,104 0 0 0 0	2,017,087 1,049,036 1,077,770 528 935,891 255 1,021,421	0 7,102 0 1 0 0 0	2,017,087 1,056,138 1,077,770 529 935,891 255 1,021,421

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information). Chloroprene meets OSHA carcinogen standard effective for the 2001 reporting year.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

Chemical Vear On-site Off-site Pounds Pounds			Recyc	eled	Energy R	ecovery	Tr	eated	Overtity	Total	Non-Produc-
methyl ether 95 0 0 0 0 15,900 0 2,909 18,809 0 0 98 0 0 0 0 0 0 280 0 1,000 1,280 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Chemical	Year							On-and Off-site	Production- related Waste Managed	tion-related Waste Managed Pounds
980	** Chloromethyl		NA	NA	NA	NA		NA			NA
Section	methyl ether										0
990											0
#** Chlorophenols #** *** Chlorophenols #**											0
** Chlorophenols											0
*** Chloropenols 88 NA											0
*** Chlorophenols											0
2-methyl- 95	** 3-Chloro-				NA						NA
98n No reports 990 Q.19175 0 0 0 6,400 237,484 26,212 109,865 3.299,036 1,776 980 Q.737,000 0 0 0 0 0 297,377 7,807 85,733 3,127,917 725 98n 0 0 0 1,009 62,967 281,511 9,645 3,940 359,072 0 0 990 Q.148,700 0 0 0 0 1,740,690 3,639 66,024 3,958,053 1,070 990 0 0 1,838,000 0 0 0 167,000 3,251 32,956 Q.941,207 858 990 Q.18,8300 0 0 0 0 167,000 3,251 32,956 Q.941,207 858 98n 0 0 0 0 0 2,456 2,991 200,336 283 2 206,068 0 p-Chlorophenyl 88 NA								14,819		578,812	10
990 0 0 0 0 0 550,770 16,664 8,525 575,959 0 0 0 990 No reports 0 0 0 0 538,391 7,504 8,329 554,224 0 0 0 0 No reports 0 0 0 0 538,391 7,504 8,329 554,224 0 0 0 0 No reports 0 0 0 0 0 0 23,3484 26,212 109,865 3,299,036 1,776 980 2,737,000 0 0 0 0 0 237,377 7,807 85,733 3,127,917 725 980 2,737,000 0 0 1,009 62,967 281,511 9,645 3,940 359,072 0 990 0 1,838,000 0 0 0 0 0 1,440,690 3,639 65,024 3,958,053 1,076 0 0 0 1,838,000 0 0 0 0 1,838,000 0 0 0 2,455 2,991 200,336 283 2 206,068 0 0 0 0 0 0 0 0 1,838,000 0 0 0 2,456 2,991 200,336 283 2 206,068 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1-propene		0	0	0	0	637,973	344	7,353	645,670	0
99n No reports 000 No reports 1											
** Chlorophenols 88 NA				0	0	0	550,770	16,664	8,525	575,959	0
** Chlorophenols 88 NA				0	0	0	520 201	7.504	0.220	554 224	
** Chlorophenols				0	0	0	538,391	/,504	8,329	554,224	U
95	** Chlorophenols			NΔ	NA	NΑ	NA	NΑ	NA	NΔ	NΔ
980 2,737,000 0 0 0 297,377 7,807 85,733 3,127,917 725 98n 0 0 0 1,009 62,967 281,511 9,645 3,940 359,072 0 990 2,148,700 0 0 0 0 1,740,690 3,639 65,024 3,958,053 1,070 990 0 0 0 2,837 78,708 188,731 71 286 270,633 0 000 1,838,000 0 0 0 2,456 2,991 200,336 283 2 206,068 0 000 1,838,000 0 0 2,456 2,991 200,336 283 2 206,068 0 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cinorophenois										
98n											725
Post					1,009	62,967					0
P-Chlorophenyl 88		99o	2,148,700	0	0	0	1,740,690	3,639	65,024	3,958,053	1,070
P-Chlorophenyl 88		99n			2,837	78,708				270,633	0
p-Chlorophenyl 88 No reports 980 No reports 990 No reports 991 No reports 990 No reports 991 No reports 992 No reports 993 No reports 994 No reports 995 9,981 632 0 54 441 34,524 10,677 56,309 0 980 2,250 1,064 0 0 0 1,110 483 7,544 12,451 0 980 2,250 1,064 0 0 0 1,110 483 7,544 12,451 0 980 2,266 914 0 0 0 4,233 412 6,647 14,412 10 990 2,206 914 0 0 0 4,233 412 6,647 14,412 10 990 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											858
Sisocyanate	C1.1 1 1										0
95 9,981 632 0 54 441 34,524 10,677 56,309 980 2,250 1,064 0 0 0 1,110 483 7,544 12,451 00 98n 0 0 0 0 0 0 0 0 0 4 4 4 4 990 2,206 914 0 0 0 4,233 412 6,647 14,412 10 99n 0 0 0 0 0 0 0 0 0 4 4 4 4 00 00 2,112 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	isocyanate	95 980 98n 990 99n 000 00n	No reports								
980	* Chloropicrin										NA
98n 990 2,206 914 0 0 0 4,233 412 6,647 14,412 100 99n 0 0 0 0 0 0 0 0 0 4 4 4 4 0 0 0 0 0 0											0
990 2,206 914 0 0 0 4,233 412 6,647 14,412 100 99n 0 0 0 0 0 0 0 0 4 4 4 4 00 000 2,112 0 0 0 905 4,620 942 7,647 16,226 0 00n 0 0 0 0 0 0 0 3 3 3 00 *** Chloroprene 88 NA										1	0
99n 0 0 0 0 0 0 0 0 4 4 4 4 0 0 0 0 0 0 0											
000 00 00 00 00 00 00 00 00 00 00 00 00											0
00n 0 0 0 0 0 0 0 3 3 0 *** Chloroprene 88 NA											0
** Chloroprene 88 NA											0
95 0 480,972 466,280 9,105 4,233,572 138,421 1,051,019 6,379,369 980 0 306,514 2,500,000 66,206 8,860,286 209,184 1,077,774 13,019,964 100 98n 0 0 0 13,385 102,414 173 299 116,271 00 990 0 584,238 1,945,200 798 8,671,014 115,522 935,889 12,252,661 99n 0 0 0 0 0 102,743 0 15 102,758 00 00 7,264 642,816 1,959,118 29,272 5,818,742 59,694 1,021,419 9,538,325 00	** Chloroprene			NA							NA
98n 0 0 0 13,385 102,414 173 299 116,271 0 99o 0 584,238 1,945,200 798 8,671,014 115,522 935,889 12,252,661 0 99n 0 0 0 0 102,743 0 15 102,758 0 00o 7,264 642,816 1,959,118 29,272 5,818,742 59,694 1,021,419 9,538,325 0	•	95	0		466,280	9,105	4,233,572		1,051,019		515
990 0 584,238 1,945,200 798 8,671,014 115,522 935,889 12,252,661 0 99n 0 0 0 0 102,743 0 15 102,758 0 000 7,264 642,816 1,959,118 29,272 5,818,742 59,694 1,021,419 9,538,325 0											10
99n 0 0 0 0 102,743 0 15 102,758 0 000 7,264 642,816 1,959,118 29,272 5,818,742 59,694 1,021,419 9,538,325 0											0
000 7,264 642,816 1,959,118 29,272 5,818,742 59,694 1,021,419 9,538,325 0											0
											0
		000 00n	7,264 No reports	042,810	1,939,118	29,212	3,010,742	39,094	1,021,419	9,338,323	ľ

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information). Chloroprene meets OSHA carcinogen standard effective for the 2001 reporting year.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

(000000						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
542-76-7	3-Chloropro- pionitrile	88 95 980 98n 990 99n 000	NR No reports No reports No reports No reports 2 No reports	NR 4	NR 0	NR 0	NR 0	NR 4	NR 153	NR 157
63938-10-3	Chlorotetrafluoro- ethane	00n 88 95 980 98n	NR No reports No reports	0 NR 0	0 NR 0	0 NR 0	0 NR 0	0 NR 0	0 NR 0	0 NR 0
		990 99n 00o 00n	1 1 1 No reports	129,800 0 40,043	0 0 0	0 0 0	0 0 0	129,800 0 40,043	0 0 0	129,800 0 40,043
354-25-6	1-Chloro-1,1,2,2- tetrafluoroethane (HCFC-124a)	88 95 980 98n 990 99n 000	NR 4 3 No reports 3 No reports 4	NR 504,553 23,336 59,525 48,929	NR 0 0	NR 0 0	NR 0 0	NR 504,553 23,336 59,525 48,929	NR 0 0	NR 504,553 23,336 59,525 48,929
2837-89-0	2-Chloro-1,1,1,2-	00o 00n 88	No reports NR	48,929 NR	NR	NR	0 NR	48,929 NR	0 NR	48,929 NR
2037 07 0	tetrafluoroethane (HCFC-124)	95 980 98n 990 99n 000 00n	11 23 1 22 1 22	752,215 750,474 852 599,721 4,651 580,038 375	1,255 5 0 5 0 5	0 0 0 0 0 0	0 0 0 0 0	753,470 750,479 852 599,726 4,651 580,043 375	0 0 0 0 0 0	753,470 750,479 852 599,726 4,651 580,043 375
1897-45-6	*,** Chlorothalonil	88 95 980 98n 990 99n 000 00n	10 25 25 1 19 1 20 No reports	28,476 7,440 9,236 0 5,106 0 4,882	250 35 35 0 7 0 44	0 0 0 5 0 0 0	0 750 0 32,000 0 0	28,726 8,225 9,271 32,005 5,113 0 4,926	396,274 97,420 301,801 5 280,116 0 201,402	425,000 105,645 311,072 32,010 285,229 0 206,328
95-69-2	** p-Chloro-o- toluidine	88 95 980 98n 990 99n 000	NR No reports	NR	NR	NR	NR	NR	NR	NR

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	eled	Energy R	ecovery	Tr	eated	Quantit	Total	Non-Produc-
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Production- related Waste Managed Pounds	tion-Produc- tion-related Waste Managed Pounds
3-Chloropropionitrile	88 95 980 98n 990	NA No reports No reports No reports No reports	NA	NA	NA	NA	NA	NA	NA	NA
	99n 00o	0 No reports 0	0	0	0	106,854	0	157	107,011 55,812	0
Chlorotetrafluoro- ethane	00n 88 95 980	NA No reports No reports	0 NA	NA NA	NA	55,812 NA	NA	0 NA	NA	NA
	98n 99o 99n	0 0 0	0 0 0	0 0 0	0 0 0	29,571 0 47,355	0 0 0	0 129,800 0	29,571 129,800 47,355	0 0
	00o 00n	0 No reports	0	0	0	0	0	40,043	40,043	0
1-Chloro-1,1,2,2- tetrafluoroethane (HCFC-124a)	88 95 980 98n	NA 0 0	NA 0 0	NA 0 0	NA 0 0	NA 1,725 165,890	NA 0 0	NA 504,011 23,136	NA 505,736 189,026	NA 0 0
	990 99n 00o	No reports 0 No reports 0	0	0	0	457,049 680,013	0	59,325 48,729	516,374 728,742	0
2 (11 1112	00n	No reports				Í		Í	Í	
2-Chloro-1,1,1,2- tetrafluoroethane (HCFC-124)	88 95 980 98n	NA 0 44,530 0	NA 239,200 282,345 0	NA 0 0 0	NA 0 0 0	NA 193,194 501,437 0	NA 35,816 0 0	NA 753,296 749,963 852	NA 1,221,506 1,578,275 852	NA 400 30 0
	990 99n 00o	110,249 0 135,092	246,089 0 346,497	0 0 0	0 0 0	263,090 0 445,998	1,085 0 0	599,669 4,651 580,278	1,220,182 4,651 1,507,865	40 0 371
*,**Chlorothalonil	00n 88 95	0 NA 5,339	0 NA 0	0 NA 0	0 NA 2,294	0 NA 24,716	0 NA 139,966	375 NA 102,279	375 NA 274,594	0 NA 1
	980 98n 990 99n	4,726 0 25,082 0	0 0 0	0 0 0	0 0 0	65,406 0 63,840 14,075	195,241 0 149,720 0	311,120 32,000 285,866 0	576,493 32,000 524,508 14,075	419 0 1,614
	00o 00n	15,267 No reports	0	0	0	44,246	114,543	206,322	380,378	24
** p-Chloro-o- toluidine	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA

Note: Data from Section 8 (Current Year) of Form R.

980, 990 and 000 are data from original industries; 98n, 99n and 00n are data from new industries. NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
75-88-7	2-Chloro-1,1,1- trifluoroethane (HCFC-133a)	88 95 980	NR 2 4	NR 35,523 162,775	NR 0 52	NR 0 0	NR 0 0	NR 35,523 162,827	NR 0 0	NR 35,523 162,827
	(Here 133a)	98n 99o	No reports 3	23,950	30	0	0	23,980	0	23,980
		99n 00o 00n	No reports No reports	77,750	0	0	0	77,750	0	77,750
75-72-9	Chlorotrifluoro-	88	NR	NR	NR	NR	NR	NR	NR	NR
70 72 7	methane (CFC-13)		1	250	0	0	0	250	0	250
	mount (er e 13)	980 98n	1 No reports	14,700	5	0	0	14,705	0	14,705
		990 99n	2 No reports	10,790	5	0	0	10,795	0	10,795
		00o 00n	No reports	17,101	5	0	0	17,106	0	17,106
460-35-5	3-Chloro-1,1,1- trifluoropropane (HCFC-253fb)	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
5598-13-0 *	Chlorpyrifos	88	NR	NR	NR	NR	NR	NR	NR	NR
	methyl	95	4	510	0	0	6,000	6,510	0	6,510
		98o	5	500	0	0	0	500	0	500
		98n 99o	No reports 4	10	0	0	0	10	24,197	24,207
		99n 00o 00n	No reports 4 No reports	10	0	0	0	10	80,821	80,831
64902-72-3 *	Chlorsulfuron	88	NR	NR	NR	NR	NR	NR	NR	NR
04702-72-3	Cinorsulturon	95	1	1	0	0	0	1	0	1
		980 98n	1 No reports	1	0	0	0	1	0	1
		99o 99n	1 No reports	1	0	0	0	1	0	1
		00o 00n	1 No reports	1	0	0	0	1	0	1
7440-47-3	Chromium	88	1,258	566,248	75,442	2,249	9,282,761	9,926,700	11,710,612	21,637,312
		95	2,015	417,700	17,281	33	1,110,708	1,545,722	5,759,759	7,305,481
		98o	2,015	704,350	13,122	9	710,336	1,427,816	12,817,976	14,245,792
		98n	58	7,400	25,220	260,448	14,863,233	15,156,301	1,646,572	16,802,873
		99o	2,041	664,513	11,257	56	842,996	1,518,822	15,420,066	16,938,888
		99n	57	3,879	20,333	38,250	10,605,111	10,667,573	1,589,358	12,256,931
		00o	2,039	511,321	12,548	348	538,854	1,063,070	7,123,328	8,186,397
		00n	48	2,098	1,317	0	5,814,589	5,818,004	1,111,007	6,929,011

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	onunuea)		Rec	ycled	Energy R	ecovery	Tı	reated	Quantity	Total	Non Bradus
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
	2-Chloro-1,1,1-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	trifluoroethane	95	0	0	0	0	0	0	35,608	35,608	0
	(HCFC-133a)	980 98n	0 No reports	0	0	0	33,000	0	162,925	195,925	4
		990	0	0	0	0	250,000	0	23,700	273,700	0
		99n	No reports							Í	
		00o	0	0	0	0	310,000	3,600	77,500	391,100	0
	Chlorotrifluoro-	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
	methane (CFC-13)	95	0	0	0	0	0	0	30	30	0
	(98o	0	0	0	0	0	0	14,705	14,705	0
		98n	No reports								
		99o	0	33,339	0	0	0	0	10,795	44,134	0
		99n 00o	No reports 0	18,000	0	0	57,159	0	17,106	92,265	0
		00n	No reports	10,000	Ů	Ŭ	37,139	Ů	17,100	72,203	Ĭ
	3-Chloro-1,1,1-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	trifluoropropane	95	No reports								
	(HCFC-253fb)	98o 98n	No reports No reports								
		990	No reports								
		99n	No reports								
		00o	No reports								
*	Chlorpyrifos	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
	methyl	95	400	0	0	0	0	6,095	6,402	12,897	0
	,	98o	2,000	0	0	0	0	4,990	285	7,275	0
		98n	No reports							4.000	
		99o 99n	4,000 No reports	0	0	0	0	0	8	4,008	0
		00o	4,000	0	0	0	0	0	80,824	84,824	0
		00n	No reports						ĺ	, , ,	
*	Chlorsulfuron	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95 98o	0	0	0	0	0	3,444 10,508	1 1	3,445 10,509	0
		980 98n	No reports	U	U	U	U	10,506	1	10,509	
		990	0	0	0	0	0	2,221	1	2,222	0
		99n	No reports								
		00o	0	0	0	0	0	4,078	1	4,079	0
	Chromium	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
	C.III OIII IIII	95		103,514,591	9,781,278	51,737	366,372	1,619,348	8,188,477	153,364,803	41,365
		98o	88,171,850	91,138,645	86,318	17,198	775,425	1,194,264	13,514,849	194,898,549	55,099
		98n	0	141,529	0	1.555	59,920	48,806	16,443,427	16,693,682	0
		99o 99n	27,731,626 1,524	91,048,077 383,454	0	1,555 0	466,434 1,977	869,733 187,876	12,590,574 11,579,546	132,707,999 12,154,377	3,888,688 10
		00o	23,223,999	86,579,219	376,580	20	97,402	518,497	8,126,272	118,921,990	48,915
		00n	0	89,457	0	0	80,135	273,239	6,813,043	7,255,874	22,823

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

Commi							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
	**	Chromium compounds	88 95 980 98n 990 99n 000 00n	1,216 1,484 1,520 324 1,500 313 1,537 322	764,851 649,921 326,248 305,574 471,172 275,674 424,116 316,331	326,027 138,542 112,857 114,397 97,948 97,210 116,272 111,159	52,653 1,084,747 874,795 667,755 816,717 728,700 1,442,625 2,060,250	30,938,106 22,125,565 30,789,883 61,655,724 30,372,979 123,325,647 13,552,324 110,528,366	32,081,637 23,998,775 32,103,783 62,743,450 31,758,816 124,427,231 15,535,337 113,016,106	14,898,726 20,434,248 13,905,851 5,771,167 12,082,844 5,186,983 14,361,305 5,267,961	46,980,363 44,433,023 46,009,633 68,514,617 43,841,660 129,614,214 29,896,642 118,284,067
4680-78-8		C.I. Acid Green 3	88 95 980 98n 990 99n 000 00n	No reports No reports No reports No reports No reports No reports No reports			, ,				
6459-94-5	**	C.I. Acid Red 114	88 95 980 98n 990 99n 000	NR 1 1 No reports 1 No reports 1	NR 0 0	NR 0 0 0	NR 0 0 0	NR 0 0 0	NR 0 0 0	NR 0 0 0	NR 0 0 0
569-64-2	*	C.I. Basic Green 4	95 980 98n 990 99n 000 00n	No reports 6 2 3 1 1 No reports No reports	750 5 5 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	750 5 5 0 0	250 0 750 0 0	1,000 5 755 0 0
989-38-8		C.I. Basic Red 1	88 95 980 98n 990 99n 000 00n	No reports 2 1 No reports 2 No reports 2 No reports 2 No reports	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	668 0 0	668 0 0
1937-37-7	**	C.I. Direct Black 38	88 95 980 98n 990 99n 000 00n	No reports No reports No reports No reports No reports No reports No reports No reports							

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen (see Appendix C for more information). For Chromium compounds, applies only to Chromium (VI) compounds.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recy	cled	Energy R	ecovery	Т	reated	Oventity	Total	Non Buoduo
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
** Chromium compounds	88 95 980 98n 990 99n 000 00n	NA 36,079,630 37,417,665 54,967 27,143,535 14,487 20,254,408 172,697	NA 45,257,456 32,859,887 903,957 35,102,921 1,696,117 31,871,276 1,137,487	NA 44,280 10,015 0 2,000 0 6,819	NA 60,191 33,545 22,002 64,839 0 22,274 12,000	NA 94,217,654 1,224,912 133,506 8,937,328 91,982 10,716,983 198,832	NA 3,492,760 2,604,536 326,055 1,296,818 197,683 1,155,818 416,507	NA 40,311,777 45,079,084 68,414,590 44,542,912 86,403,849 31,210,209 99,515,640	NA 219,463,748 119,229,644 69,855,077 117,090,353 88,404,118 95,237,787 101,453,163	NA 1,658,922 183,157 2,817 1,444,472 43,000,490 271,418 19,000,023
C.I. Acid Green 3	88 95 980 980 990 990 990 000	NA No reports	NA	NA	NA	NA	110,507 NA	99,513,040 NA	NA	19,000,023 NA
** C.I. Acid Red 114	88 95 980 98n 990 99n 000 00n	NA 0 0 No reports 0 No reports 0 No reports	NA 0 0 0	NA 0 0 0	NA 0 0 0	NA 0 0 0	NA 0 0 0	NA 0 0 0	NA 0 0 0	NA 0 0 0
* C.I. Basic Green 4	88 95 980 98n 990 99n 000	NA 0 0 0 0 No reports No reports	NA 0 0 0 0	NA 0 0 0 0	NA 0 0 0 0	NA 110 0 0	NA 499 998 0	NA 10 20 0	NA 619 1,018 0	NA 0 0 0 0
C.I. Basic Red 1	00n 88 95 980 98n 990	NA 0 0 No reports 0	0 NA 0 0	0 NA 0 0	0 NA 54 0	0 NA 0 0	0 NA 289 0	0 NA 668 0	0 NA 1,011 0	0 NA 0 0
** C.I. Direct Black 38	99n 00o 00n 88 95 98o 98n 99o 99n 00o	No reports NA No reports	0 NA	0 NA	0 NA	0 NA	0 NA	0 NA	0 NA	0 NA

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen (see Appendix C for more information). For Chromium compounds, applies only to Chromium (VI) compounds.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
28407-37-6	C.I. Direct Blue 218	88 95 980	NR 6 6	NR 10 0	NR 6 10	NR 0 0	NR 0 5	NR 16 15	NR 1,400 2,142	NR 1,416 2,157
		98n 99o	No reports 8	0	10	0	0	10	2,259	2,269
		99n 00o 00n	No reports 8 No reports	0	20	0	1,704	1,724	3,848	5,572
2602-46-2 ** 16071-86-6 **	C.I. Direct Blue 6	88 95 980 98n 990 99n 000 00n	No reports							
16071-86-6 **	C.I. Direct Brown 95	88 95 980 98n 990 99n 000 00n	No reports 1 No reports	0	0	0	0	0	0	0
2832-40-8	C.I. Disperse Yellow 3	88 95 980 98n	1 3 3 No reports	398 450 205	302 27 25	0 0 0	0 0 0	700 477 230	899 1,061 876	1,599 1,538 1,106
		990 99n 000 00n	3 No reports 3 No reports	50 31	25 25	0	0	75 56	900 450	975 506
3761-53-3 **	C.I. Food Red 5	88 95 980 98n 990 99n 000 00n	No reports							
81-88-9	C.I. Food Red 15	88 95 980	2 2 2	250 0 0	0 0 0	0 0 0	0 0 0	250 0 0	0 0 0	250 0 0
		98n 99o	No reports 3	0	0	0	0	0	0	0
		99n 00o 00n	No reports 3 1	0 0	0	0	0 23,886	0 23,886	0	0 23,886

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(continueu)		Recyc	eled	Energy R	ecovery	Tr	eated	0 414	T. 4.1	N. D. I
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
C.I. Direct	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
Blue 218	95	5	0	0	0	619	5,151	1,411	7,186	0
	98o	0	260	0	0	312	1,417	2,144	4,133	0
	98n 99o	No reports 0	450	0	0	53	1,622	2,262	4,387	0
	99n	No reports	150	Ŭ	Ü	33	1,022	2,202	1,507	
	00o	0	1,100	0	0	13,326	1,984	2,249	18,659	0
th CIPI PI	00n	No reports	274	27.4	27.	37.	27.4	37.	27.1	27.1
** C.I. Direct Blue 6	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
** C.I. Direct	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
Brown 95	95 980 98n 990 99n 000 00n	No reports	0	0	0	0	0	0	0	0
C.I. Disperse	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
Yellow 3	95	0	0	0	0	1,061	5,189	1,410	7,660	0
	980 98n	0 No reports	0	0	0	0	1,882	1,106	2,988	0
	990	0	0	0	0	0	0	950	950	0
	99n	No reports								
	00o	0	0	0	0	0	0	506	506	0
** C.I. Food Red 5	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
C.F. Food Red 3	95 980 98n 990 99n 000 00n	No reports	172	17.1	1741	177	1741	W	1777	177
C.I. Food Red 15	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95 98o	0	0	0	0	0	0	0	0 0	0
	980 98n	No reports	U	U	U	0	U	0		0
	99o	0	0	0	0	0	0	0	0	0
	99n	No reports								
	00o	0	0	0	0	0	0	22 886	22.896	0
	00n	0	0	0	0	0	0	23,886	23,886	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commue						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
3118-97-6	C.I. Solvent Orange 7	88 95 980 98n 990 99n 000 00n	No reports No reports No reports 1 No reports No reports No reports No reports	0	0	0	0	0	0	0
97-56-3	** C.I. Solvent Yellow 3	88 95 980	1 1 1	250 0 0	0 0 0	0 0 0	0 0 0	250 0 0	0 0 0	250 0 0
		98n 990 99n	No reports	0	0	0	0	0	0	0
		00o 00n	No reports 1 No reports	0	0	0	0	0	0	0
842-07-9	C.I. Solvent Yellow 14	88 95 980 98n 990 99n 000 00n	No reports	0	0	0	0	0	0	0
492-80-8	*,** C.I. Solvent Yellow 34	88 95 980 98n	No reports No reports 1 No reports	0	0	0	0	0	0	0
		990 99n 000 00n	1 2 1 2	0 5 0	0 0 0	0 0 0 0	0 0 0	0 5 0	0 157 0 0	0 162 0 0
128-66-5	C.I. Vat Yellow 4	88 95 980 98n 990 99n 000 00n	No reports		Ü	Ü	Ü		V	V
7440-48-4	** Cobalt	88 95 980 98n 990 99n 000 00n	178 262 269 6 252 5 276 4	44,038 51,257 40,535 280 24,723 27 31,294	16,744 17,070 3,597 7 5,600 0 3,963	0 0 0 0 0 0 0 2	213,204 46,487 85,063 133,731 5,803 83,115 7,963 52,160	273,986 114,814 129,195 134,018 36,126 83,142 43,222 52,173	248,089 228,188 414,201 17,870 319,785 5 355,832	522,075 343,002 543,396 151,888 355,911 83,147 399,054 52,181

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(communication)		Recy	vcled	Energy R	ecovery	Tr	eated			
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
C.I. Solvent Orange 7	88 95 980 98n 990 99n 000	NA No reports No reports No reports 0 No reports No reports	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0
*** 0.7.0.1	00n	No reports	27.1	37.1	27.1	274	37.	27.4	37.1	27.4
** C.I. Solvent	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
Yellow 3	95 08-	0	0	0	0	0	0	0	0	0
	980 98n	0 No reports	0	0	0	0	0	0	0	0
	990 99n	No reports No reports	0	0	0	0	0	0	0	0
	00o 00n	0 No reports	0	0	0	0	0	0	0	0
C.I. Solvent Yellow 14	980 980 980 990 990 990 000	No reports	NA	NA	NA	NA	NA	NA	NA	NA
*,**C.I. Solvent	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
Yellow 34	95 980 98n	No reports 0 No reports	0	0	0	0	0	0	0	0
	99o	0	0	0	0	0	0	0	0	0
	99n	0	0	0	0	129,504	0	162	129,666	0
	00o 00n	0	0	0	0	0 107,973	0 787	0	0 108,760	0 0
C.I. Vat Yellow 4	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
** Cobalt	88 95	NA 3,981,408	NA 12,452,691	NA 0	NA 1	NA 379,265	NA 85,327	NA 256,695	NA 17,155,387	NA 0
	93 980	4,249,702	7,598,271	0	10,000	14,107	32,813	326,305	12,231,198	295
	980 98n	4,249,702	7,396,271	0	0,000	0	0	151,859	151,859	0
	990	4,421,707	7,432,305	0	0	5,886	14,387	240,024	12,114,309	23
	99n	0	0	0	0	0	0	83,124	83,124	0
	00o	4,146,786	8,409,291	ő	0	17,127	16,005	248,521	12,837,731	102
	00n	0	0	0	0	0	0	52,160	52,160	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

							On-site Releas	ses		Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
	**	Cobalt compounds	88 95	150 232	56,410 29,246	63,662 70,646	18,500 51,657	38,960 505,904	177,532 657,453	300,641 358,503	478,173 1,015,956
		compounds	980	288	32,098	35,350	32,950	520,101	620,499	361,511	982,010
			98n	157	55,229	24,069	12,006	12,610,937	12,702,241	461,156	13,163,397
			99o	291	33,859	58,826	30,421	503,301	626,407	523,216	1,149,623
			99n	155	61,216	24,948	17,001	14,315,236	14,418,401	401,301	14,819,702
			00o	308	34,022	50,323	38,125	366,223	488,693	657,729	1,146,422
			00n	152	46,205	26,760	18,001	15,187,036	15,278,002	349,966	15,627,968
7440-50-8	*	Copper	88	1,978	1,524,812	116,919	15,646	10,466,155	12,123,532	17,234,052	29,357,584
			95	2,830	1,272,206	44,744	29,787	1,658,397	3,005,134	15,313,458	18,318,592
			98o	2,841	1,282,445	37,956	56,634	1,537,015	2,914,050	9,167,861	12,081,910
			98n	58	117,699	17,196	23,211	278,545,097	278,703,203	2,401,574	281,104,777
			99o	2,802	2,059,010	33,783	62,367	1,788,516	3,943,676	9,735,151	13,678,827
			99n	44	75,377	2,985	5	12,843,001	12,921,368	1,593,619	14,514,987
			00o	2,782	1,101,632	39,255	70,577	3,288,639	4,500,102	11,376,855	15,876,957
		C	00n	42	77,789	404	0	4,629,524	4,707,717	2,053,716	6,761,433
		Copper	88	1,047	3,159,242	185,292	165,957	29,683,607	33,194,098	14,135,121 10,122,441	47,329,219
		compounds	95 980	1,479	2,027,078 3,537,950	93,463 95,295	284,852 187,400	40,773,223 51,985,854	43,178,616 55,806,499	8,748,068	53,301,057
			980 98n	1,598 384	588,837	370,258		1,233,638,619	1,235,972,360	4,717,867	64,554,566 1,240,690,227
			990	1,619	1,556,263	84,748	247,755	44,356,899	46,245,665	9,461,460	55,707,125
			99n	366	516,258	276,827			1,710,210,254	4,379,835	1,714,590,089
			000	1,646	1,208,671	84,705	247,235	56,931,657	58,472,268	12,106,864	70,579,133
			00n	365	447,435	341,714			1,291,409,353	5,349,520	1,296,758,873
8001-58-9	* **	Creosote	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	85	928,376	8,427	0	500	937,303	2,595,570	3,532,873
			98o	78	864,403	24,842	0	12,275	901,520	1,146,223	2,047,743
			98n	14	1,142	0	0	2,176,468	2,177,610	1,996	2,179,606
			99o	75	735,565	22,318	0	34,237	792,120	610,286	1,402,406
			99n	15	1,059	1	0	1,174,746	1,175,806	636	1,176,442
			00o	79	717,787	25,015	0	11,175	753,977	1,056,865	1,810,842
			00n	14	345	0	0	207,681	208,026	92	208,118
120-71-8	**	p-Cresidine	88	6	7,080	250	0	750	8,080	4,700	12,780
			95	6	4,606	0	0	0	4,606	2,200	6,806
			980	4	2,400	0	0	0	2,400	0	2,400
			98n	No reports	1.720	410	0	0	2 140	0	2 140
			990	3 No	1,730	410	0	0	2,140	0	2,140
			99n 00o	No reports 4	1,732	224	0	0	1,956	12,249	14,205
					1,732	224	U	U	1,930	12,249	14,203
108-39-4	*	m-Cresol	00n 88	No reports	18,432	283	0	455	19,170	13,503	32,673
100-37-4		111-010301	95	29	48,000	1,675	680,000	0	729,675	3,316	732,991
			980	26	44,999	141	502,670	4,655	552,465	632	553,097
			98n	4	9	0	0	0	9	0	9
			990	25	41,892	670	401,011	3,096	446,669	755	447,424
			99n	6	116	1	250	0	367	279	646
			00o	29	39,479	42	542,970	40	582,531	1,030	583,561
			00n	5	13	0	250	0	263	145	408

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Rec	ycled	Energy R	Recovery	Г	reated	Onantitu	Total	Non Duoduo
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
** Cobalt	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
compounds	95	100,882	1,592,024	0	847	1,394,924	98,451	962,820	4,149,948	4,230
	980	151,421	1,678,717	0	7,985	1,459,617	37,257	983,591	4,318,588	1,594
	98n	39,727	1,613	0	0	11,009	15	13,158,472	13,210,836	4,000
	990	314,090	1,461,161	117	14,204	1,157,119	65,061	1,124,027	4,135,779	3,762
	99n	164,666	11,164	0	6 202	0 1,631,672	10	14,829,543	15,005,383	14
	000	1,901,314 117,640	1,527,107 9,086	0	6,203	1,631,672	22,607 0	1,123,084 15,600,883	6,211,987 15,727,609	1
* Conner	00n	117,040 NA	9,086 NA	NA	NA	NA	NA	15,000,885 NA	15,727,609 NA	575 NA
* Copper	88 95	490,036,967		506	43,341	41,185,019	1,748,570	11,862,539	1,114,414,824	91,927
	98o	538,850,837		189,372	499,061	45,034,610	1,429,503	9,122,403	1,114,414,824	951,983
	98n	2,708,008	817,145	0	0	1,370	27,294	281,065,001	284,618,818	0
	990	467,473,980		0	331	742,921	1,676,303	8,411,205	1,096,810,314	217,771
	99n	3,363,123	1,585,842	0	0	51,153	42,171	14,486,668	19,528,957	0
	00o	644,456,385		49,383	193,811	416,429	3,910,170	13,612,985	1,316,886,790	86,162
	00n	2,925,470	3,214,346	0	0	57,890	38,667	6,792,201	13,028,574	1,536,149
Copper	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
compounds	95	214,989,831	182,618,277	0	30,802	60,471,704	2,279,073	50,032,777	510,422,464	1,323,102
	98o	186,547,521	151,835,262	0	23,292	2,737,005	1,867,554	61,483,166	404,493,800	4,149,171
	98n	5,157,232	1,760,317	0	0	483,340	132,144	1,241,335,324	1,248,868,357	297,901
	99o	220,045,744	149,364,041	1,200	324,339	3,125,432	1,485,781	52,814,888	427,161,425	4,476,459
	99n	2,013,620	2,416,660	0	0	7,214,180	491,128	1,392,988,809	1,405,124,397	330,001,048
	00o	207,624,531		0	18,278	708,732	1,936,962	47,753,951	417,487,193	24,178,319
	00n	1,755,725	2,043,383	0	0	117,068	65,677	1,162,055,754	1,166,037,607	140,001,553
*,**Creosote	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	64,447,471	2,180	6,100	94,871	163,131	298,027	3,208,184	68,219,964	322,988
	98o	11,514,469	717,808	2,626,352	81,103	839,960	902,470	1,901,684	18,583,846	541,740
	98n	0	0	10	49,454	523,727	41,936	2,177,407	2,792,534	510.607
	99o 99n	6,427,378 0	696,540 0	2,143,805 471	163,252 225	432,906 1,490,119	1,051,318 22,639	1,338,805 1,179,126	12,254,004 2,692,580	519,697 0
	99n 00o	10,151,880	0	2,530,570	248,677	7,194,936	1,406,417	1,179,120	23,439,370	576,812
	000 00n	10,131,880	0	2,330,370 737	44,122	1,341,493	30,745	208,106	1,625,203	0
** p-Cresidine	88	NA NA	NA	NA	NA	NA	NA	NA	NA	NA NA
p Cresianie	95	0	0	0	0	0	51,611	6,806	58,417	3,400
	98o	0	0	0	0	0	29,000	2,400	31,400	0,400
	98n	No reports	_		_		,,	_,	2 2, 10 0	Ĩ
	990	0	0	0	0	1,106	5,700	1,387	8,193	0
	99n	No reports				ĺ	ĺ	ĺ.	,	
	00o	0	0	0	0	528	25,949	1,956	28,433	0
	00n	No reports								
* m-Cresol	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	2,309,373	1,500,001	615,425	17,910	329,024	91,159	737,708	5,600,600	151
	98o	1,769,226	1,064,540	649,489	18,878	240,659	8,216	554,568	4,305,576	719
	98n	0	0	0	45,524	40,473	0	9	86,006	0
	99o	32,821	943,956	691,506	21,386	265,690	7,763	451,744	2,414,866	667
	99n	0	0	0	44,270	531,957	0	436	576,663	0
	00o	1,398,437	1,660,747	686,588	22,475	369,856	8,346	586,900	4,733,349	94
	00n	0	0	0	0	164,419	0	46	164,465	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
95-48-7	o-Cresol	88	28	89,793	448	0	1,667	91,908	12,458	104,366
		95	23	12,425	82	590,000	0	602,507	5,257	607,764
		980	21	9,270	16	466,578	20	475,884	39,525	515,409
		98n 99o	6 25	11.050	0 19	201 276	0	202.474	2 674	12 395,148
		990 99n	23 7	11,059 717	19	381,376 250	20 11,770	392,474 12,738	2,674 743	13,481
		000	26	10,459	14	501,865	11,770	512,351	4,627	516,978
		00n	4	12	0	250	0	262	141	403
106-44-5	p-Cresol	88	18	640,703	1,143	152,000	62,291	856,137	643	856,780
	1	95	30	44,901	1,066	342,500	0	388,467	3,168	391,635
		98o	30	57,003	43	299,485	0	356,531	50,556	407,087
		98n	5	13	0	0	0	13	0	13
		990	29	44,818	422	244,834	68	290,142	32,884	323,026
		99n	7	148	1	250	0	399	222	621
		00o	32	41,734	398	321,553	5	363,690	33,169	396,859
1319-77-3 *	Cresol (mixed	00n 88	4	787,305	6,811	250 1,804,060	0 4,516	262 2,602,692	142 483,488	404 3,086,180
1319-77-3	isomers)	95	111 155	1,606,566	15,011	648,882	2,345	2,002,092	47,654	2,320,458
	isomers)	98o	148	1,563,222	8,374	489,033	11,839	2,072,468	18,781	2,091,249
		98n	21	2,449	251	750	12,984	16,434	1,032	17,466
		990	151	1,421,501	4,784	899,887	9,313	2,335,485	117,260	2,452,745
		99n	18	3,500	252	0	63,963	67,715	17,134	84,849
		00o	155	1,289,120	5,518	688,641	6,539	1,989,818	94,437	2,084,255
		00n	19	1,377	505	44,205	63,193	109,280	1,519	110,799
4170-30-3 *	Crotonaldehyde	88	NR	NR	NR	NR	NR	NR	NR	NR
		95	7	101,579	680	391,500	0	493,759	0	493,759
		980	6	29,584	3,800	1,300	0	34,684	0	34,684
		98n 99o	1 8	0	27.207	0 1,350	0	67.514	0	0 67,514
		990 99n	3	28,867 16	37,297 1	1,330	0	67,514 17	176	193
		00o	9	24,378	36,838	1,400	10	62,626	0	62,626
		00n	3	0	0	0	0	02,020	0	02,020
98-82-8	Cumene	88	118	5,239,958	3,201	30,165	8,591	5,281,915	83,287	5,365,202
		95	242	1,871,060	1,490	9,403	1,102	1,883,055	71,635	1,954,690
		98o	247	1,383,677	660	1,040	34,940	1,420,317	32,683	1,453,000
		98n	160	10,507	5	0	926	11,438	720	12,158
		990	243	1,433,081	3,133	1,271	35,199	1,472,684	17,118	1,489,802
		99n	146	11,295	19	0	12	11,326	1,188	12,514
		000	252	1,368,024	659	642	46,545	1,415,870	97,681	1,513,551
20 15 0	Cumono	00n	124	18,244	1 794	271.000	518	18,768	112	18,880
80-15-9	Cumene hydroperoxide	88 95	40 44	192,523 72,898	1,784 68	371,000 280,000	250 3,400	565,557 356,366	22,944 10,634	588,501 367,000
	nyuroperoxide	93 980	45	75,036	79	210,000	40,023	325,138	10,634	335,894
		98n	No reports	75,050	19	210,000	70,023	323,136	10,730	333,094
		990	49	63,230	120	330,000	40,023	433,373	9,488	442,861
		99n	3	173	0	0	0	173	14,690	14,863
		00o	49	60,529	94	130,000	40,023	230,646	9,389	240,035
		00n	2	9	0	0	0	9	0	9

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recy	cled	Energy l	Recovery	Т	reated	0	T-4-1	N Dd
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
o-Cresol	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	171,098	76	304,801	321	184,032	125,072	606,682	1,392,082	116
	980	95,701	0	339,395	1,218	206,884	17,724	516,766	1,177,688	376
	98n 99o	0 20.724	0	0	45,524	58,649	16,006	12 204 705	104,185 923,729	0 89
	990 99n	29,734 0	75 0	250,748	24,837 44,270	206,544 521,460	16,996 1,500	394,795 14,240	581,470	0
	99n 00o	101,940	0	0 255,956	75,292	184,453	4,338	516,128	1,138,107	65
	000 00n	101,940	0	255,950	13,292	181,191	4,336	164	181,355	03
p-Cresol	88	NA	NA	NA	NA	161,191 NA	NA	NA	NA	NA
p-cresor	95	137,136	900,001	454,288	58,641	239,766	989,315	392,942	3,172,089	100
	98o	83,138	654,268	449,080	76,711	1,156,104	54,263	408,665	2,882,229	280
	98n	0	0	0	45,524	58,586	0	13	104,123	0
	990	21,521	471,978	409,814	106,705	1,394,054	45,727	322,096	2,771,895	230
	99n	0	0	0	44,270	511,244	0	416	555,930	0
	00o	12,896	817,983	544,928	129,287	1,458,101	5,964	397,279	3,366,438	150
	00n	0	0	0	0	180,329	0	168	180,497	0
* Cresol (mixed	d 88	NA	NA	NA	NA	NA	NA	NA	NA	NA
isomers)	95	1,052,270	187,427	5,077,170	637,169	8,558,967	1,143,472	2,204,126	18,860,601	6,809
	980	125,717	645,573	7,298,232	434,321	14,848,604	313,764	2,097,628	25,763,839	3
	98n	0	0	0	2,688,010	1,748,792	105,015	17,166	4,558,983	0
	990	117,186	816,127	5,770,024	410,908	16,960,001	324,550	2,508,645	26,907,441	1,697
	99n	167,180	0	0	2,894,302	1,561,752	13,363	68,371	4,704,968	10
	00o	812,482	1,322,568	4,773,875	353,350	9,990,648	349,327	2,121,615	19,723,865	963
* 0 . 111	00n	0	0	0	544,466	1,507,364	31,921	109,453	2,193,204	0
* Crotonaldehy		NA	NA	NA	NA	NA	NA	NA	NA	NA
	95 98o	0	0	0 1,837,500	0	202,400 569,220	0	498,820	701,220	0
	980 98n	0	0	1,837,300	0	369,220	16 0	34,884 0	2,441,620	0
	9811	0	0	1,823,660	7,492	1,255,658	1,552	66,911	3,155,273	0
	990 99n	0	0	1,823,000	0	252,503	1,332	188	252,691	0
	00o	0	0	2,156,006	1,620	1,228,087	11	62,517	3,448,241	0
	00n	0	0	2,130,000	0	102,654	784	02,517	103,438	0
Cumene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	17,285,493	84,937	7,057,342	1,627,931	6,417,943	189,969	2,042,567	34,706,182	2,265
	980	19,187,037	171,269	9,230,579	855,855	16,810,289	210,393	1,565,308	48,030,730	914
	98n	161,872	500	14,642	614,478	74,840	17,918	6,105	890,355	850
	99o	20,953,597	82,294	5,572,497	1,049,045	12,803,596	142,335	1,560,333	42,163,697	519
	99n	417,429	308	21,094	711,535	389,237	3,104	9,174	1,551,881	23
	00o	2,092,834,678	114,302	3,862,910	900,628	10,522,263	103,429	1,576,171	2,109,914,381	1,910
	00n	365,804	1,697	572	626,623	166,019	5,364	15,726	1,181,805	27
Cumene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
hydroperoxid		0	0	0	6	482,755	21,434	376,667	880,862	0
	980	0	0	0	1,066	399,343	278,331	333,832	1,012,572	0
	98n	No reports	_	500	.= -	1.005.435	440 = 40	452.20=	1.000.45:	_
	99o	0	6	500	476	1,095,436	448,749	453,287	1,998,454	0
	99n	0	0	0	50,683	111,872	15,702	326	178,583	0
	00o	0	0	400	798	1,469,095	370,717	239,155	2,080,165	0
	00n	0	0	0	0	88,060	766	9	88,835	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
135-20-6	**	Cupferron	88 95 980	4 1	920 0 0	0 0 0	0 0 0	0 0 0	920 0 0	0 0 0	920 0 0
			98n 990 99n	No reports 1 No reports	0	0	0	0	0	0	0
			00o 00n	2 No reports	0	343	0	0	343	0	343
21725-46-2	*	Cyanazine	88 95	NR 5	NR 991	NR 492	NR 0	NR 0	NR 1,483	NR 2,527	NR 4,010
			980	6	193	0	0	0	1,463	2,327	193
			98n	1	9	0	0	12,000	12,009	0	12,009
			99o	2	77	0	0	0	77	0	77
			99n	1	67	0	0	81,464	81,531	0	81,531
			000	1	33	0	0	0	33	7,900	7,933
		Cyanide	00n	No reports	1,248,012	195,244	3,707,326	107 209	5,257,790	501 100	5,839,198
		compounds	88 95	248	1,075,114	89,753	4,429,640	107,208 18,581	5,613,088	581,408 154,577	5,767,665
		compounds	980	244	703,388	54,618	3,762,384	16,821	4,537,211	113,184	4,650,395
			98n	87	62,250	3,010	18,750	3,973,818	4,057,828	45,427	4,103,255
			99o	243	944,538	68,306	3,459,749	10,989	4,483,582	74,797	4,558,379
			99n	68	14,184	2,162	19,000	2,486,994	2,522,340	8,873	2,531,213
			00o	233	608,314	70,461	3,920,182	10,617	4,609,574	56,531	4,666,105
1121 22 2			00n	58	35,004	1,786	750	1,786,143	1,823,683	28,200	1,851,883
1134-23-2	*	Cycloate	88	NR	NR 26	NR	NR	NR	NR	NR 242	NR
			95 98o	3	26 97	1,108 113	16 77	0	1,150 287	242 4	1,392 291
			98n	No reports	91	113	//	U	267	7	291
			990	3	625	113	89	0	827	684	1,511
			99n	No reports							Ź
			00o	2	14	0	53	0	67	164	231
			00n	No reports							
110-82-7	*	Cyclohexane	88	304	13,984,542	20,071	334,471	38,190	14,377,274	211,575	14,588,849
			95 98o	367	8,099,139	18,908 13,720	238,200	10,809	8,367,056	105,702	8,472,758
			980 98n	381 197	5,970,033 84,998	15,720	348,428 8,430	1,357 262	6,333,538 93,718	56,058 12,027	6,389,596 105,745
			990	373	4,915,907	13,310	272,426	1,051	5,202,694	104,278	5,306,972
			99n	194	73,299	26	61,998	6,422	141,745	13,156	154,901
			00o	382	4,295,114	17,811	158,477	2,537	4,473,939	23,638	4,497,577
			00n	186	360,591	275	138,167	1,583	500,616	25,774	526,390
108-93-0	*	Cyclohexanol	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	25	167,959	154	3,623,000	0	3,791,113	70	3,791,183
			98o 98n	27 3	300,624 43	298 0	4,307,800 0	0	4,608,722	1,490	4,610,212 56
			98n 99o	24	161,524	41	3,730,307	0	43 3,891,872	13 881	3,892,753
			99n	7	101,324	0	0,730,307	0	9	181	190
			00o	27	146,667	4,978	3,867,623	0	4,019,268	4,857	4,024,125
			00n	9	263	5	0	311,600	311,868	0	311,868

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recy	cled	Energy l	Recovery	Т	reated	Overtita	Total	Non Duoduo
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
** Cupferron	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	5,648	0	5,648	0
	98o	0	0	13,228	659	0	0	0	13,887	0
	98n	No reports 0	0	2.750	0.622	0	0	0	12 272	0
	99o 99n	No reports	0	3,750	9,623	U	0	U	13,373	0
	00o	0	0	15,075	0	3,432	0	343	18,850	0
	00n	No reports	ŭ	13,073	Ŭ	3,132	Ü	3.13	10,050	Ĭ
* Cyanazine	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ž	95	0	0	0	0	545,000	8,100	3,887	556,987	0
	98o	0	0	0	0	43,000	27,576	453	71,029	0
	98n	0	0	0	0	0	0	12,000	12,000	0
	990	0	0	0	0	0	75,400	75,500	150,900	0
	99n	0	0	0	0	0	0	81,531	81,531	0
	00o	0 No reports	0	0	0	0	27,430	27,430	54,860	0
Cyanide	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
compounds	95	664,976	32,518	19,000	3,523	9,329,211	718,523	5,685,613	16,453,364	6,215
Compounds	98o	1,692,214	58,277	7,028,885	2,185	11,967,217	723,026	4,574,477	26,046,281	2,488
	98n	4,775,375	0	143	195	22,269,231	55,905	4,060,011	31,160,860	12
	99o	463,102	24,093	5,174,259	31	12,980,685	1,060,539	4,531,548	24,234,257	25,127
	99n	1,096,015	0	92	116	12,243,449	20,585	2,611,769	15,972,026	27,241
	00o	618,990	10,232	4,949,571	11,322	9,156,001	814,611	4,683,780	20,244,507	2,352
	00n	845,054	0	0	1,059	10,430,766	10,593	1,852,152	13,139,624	105
* Cycloate	88	NA	NA	NA	NA	NA 2 000	NA C 001	NA 1 246	NA 0.247	NA
	95 98o	0	0	0	0	2,000 1,148	6,001 3,574	1,346 289	9,347 5,011	0
	98n	No reports	U	U	U	1,140	3,374	209	3,011	· ·
	99o	0	0	0	0	1,097	2,054	600	3,751	1,652
	99n	No reports	Ü		•	1,007	2,00 .		3,751	1,002
	00o	0	0	0	0	53	0	230	283	0
	00n	No reports								
* Cyclohexane	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	54,644,021	1,585,369	10,345,060	5,145,025	23,742,793	1,250,232	8,427,086	105,139,586	123,181
	98o	67,121,132	638,830	18,369,452	3,402,221	21,858,011	4,380,789	6,198,580	121,969,015	8,862
	98n 99o	457,159 42,836,346	1,685 961,404	3,156 15,660,044	4,891,083 2,019,569	3,435,597 22,424,903	248,265 2,183,065	93,750 5,327,681	9,130,695 91,413,012	328 175,091
	990 99n	1,567,007	63,963	18,735	2,573,663	3,408,308	135,743	146,393	7,913,812	2,161
	000	36,086,420	855,034	23,079,726	2,260,656	227,638,515	1,407,325	4,438,626	295,766,302	72,539
	00n	962,903	40,951	15,328	9,362,622	2,348,945	626,804	520,791	13,878,344	923
* Cyclohexanol	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
÷	95	0	0	677,199	16,473	154,921	21,584	3,836,687	4,706,864	0
	980	0	0	3,021,084	75,661	150,421	104,240	4,649,061	8,000,467	0
	98n	0	0	29	144	12,360	0	33	12,566	0
	99o	0	100	1,781,743	64,445	155,135	89,275	3,871,747	5,962,445	0
	99n	0	2 170	0 2 007 276	01 191	82,814	20.570	181	83,026	0
	00o 00n	0	2,170 0	3,097,376 0	91,181 78,170	432,708 35,247	20,570 76,750	4,008,065 31,714	7,652,070 221,881	0
	JUII	U	U	U	/0,1/0	33,24/	70,730	31,/14	221,001	<u> </u>

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

,							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
68359-37-5	*	Cyfluthrin	88 95 980 98n 990 99n 000	NR 2 2 1 4 1 2	NR 10 4 0 16 0 3	NR 0 1 0 72 0 22	NR 0 0 0 0 0 0	NR 0 0 0 0 0	NR 10 5 0 88 0 25	NR 0 0 0 0 0	NR 10 5 0 88 0 25
68085-85-8	*	Cyhalothrin	00n 88 95 980 98n 990 99n 000	NR No reports No reports No reports No reports 1 No reports	0 NR 0	0 NR 0	0 NR 0	0 NR 0	0 NR 0	0 NR 0	0 NR 0
94-75-7	*,**	2,4-D (acetic acid)	00n 88 95 980 98n 990 99n 000 00n	No reports 28 27 28 6 28 7 24 6	7,020 6,888 3,970 18 7,879 34 6,797	549 1,083 88 0 74 0 256	3,789 250 1,300 29,909 440 21,850 250	38,000 4,325 1,798 0 1,798 0 1,831	49,358 12,546 7,156 29,927 10,191 21,884 9,134	68,422 17,430 2,887 269 11,426 480 23,887	117,780 29,976 10,043 30,196 21,617 22,364 33,021
533-74-4	*	Dazomet	88 95 980 98n 990 99n 000 00n	NR 11 14 No reports 15 No reports 18	NR 1,042 0 250 2,792 0	NR 230 0 450	NR 0 0 0 0 13,515	NR 0 0 5	NR 1,272 0 705 3,392 13,515	NR 2,578 1,274 250 0	NR 3,850 1,274 955 3,392 13,515
53404-60-7	*	Dazomet, sodium salt	88 95 980 98n 990 99n 000 00n	NR 2 2 2 No reports 2 No reports 2 No reports	NR 0 0	NR 0 0	13,313 NR 0 0	NR 0 0	15,313 NR 0 0	NR 250 0	13,313 NR 250 0
94-82-6	*	2,4-DB	88 95 980 98n 990 99n 000 00n	NR 2 2 1 2 No reports 3 No reports	NR 750 7 10 17	NR 0 0 0 0	NR 0 0 0 0	NR 0 0 0 0	NR 750 7 10 17	NR 0 0 0 0	NR 750 7 10 17 20

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	eled	Energy R	ecovery	Tre	eated	Overtity	Total	Non Duoduo
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Production-related Waste Managed Pounds
* Cyfluthrin	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	989	890	20	1,899	0
	980	0	0	0	0	3,496	964	5	4,465	0
	98n	0	0	0	0	15,916	0	0	15,916	0
	990	0	0	0	0	3,024	1,623	83	4,730	0
	99n 00o	0	0 0	0	0	13,783 462	0 790	0 25	13,783 1,277	0
	000 00n	0	0	0	0	13,783	/90 0	0	1,277	0
* Cyhalothrin	88	NA	NA	NA	NA	13,783 NA	NA	NA	13,783 NA	NA
Супающіп	95 980	No reports No reports	IVA	IVA	NA.	IVA	IVA	NA	NA.	IVA
	98n	No reports								
	99o	0	0	0	0	0	0	0	0	0
	99n 00o	No reports 0	0	0	0	0	0	0	0	0
	00n	No reports		-		-	-	-		_
*,** 2,4-D (acetic acid		NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	29,200	0	0	0	23,780	24,490	27,595	105,065	6,186
	98o	87,757	0	0	11	111,450	59,436	9,964	268,618	0
	98n	0	0	0	0	125,425	0	30,192	155,617	0
	99o	94,815	0	0	0	118,130	63,548	26,173	302,666	0
	99n	0	0	0	0	386,422	164	22,131	408,717	0
	00o	15,559	0	0	0	149,047	29,972	39,042	233,620	0
	00n	0	0	0	769	185,510	114	87	186,480	0
* Dazomet	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	20,110	1,178	3,542	24,830	0
	980	0	0	0	0	100	2,100	1,400	3,600	0
	98n 99o	No reports 0	0	0	0	12.002	9,803	(02	22.400	0
	990 99n	No reports	U	U	U	13,093	9,803	602	23,498	0
	00o	0	0	0	0	40,100	20,671	3,400	64,171	0
	00n	0	0	0	0	0	0	13,515	13,515	ő
* Dazomet, sodium		NA	NA	NA	NA	NA	NA	NA	NA	NA
salt	95	0	0	0	0	56	7,807	0	7,863	0
	98o	0	0	0	0	73	12,620	90	12,783	0
	98n	No reports								
	99o	0	0	0	0	38	12,165	4	12,207	0
	99n	No reports								
	00o	0	0	0	0	72	12,060	8	12,140	0
* 2,4-DB	00n 88	No reports	NA	NT A	NA	NTA	NA	NA	NA	NT A
2,4-DD	88 95	NA 0	NA 0	NA 0	NA 0	NA 0	NA 217	NA 290	507	NA 0
	93 980	0	0	0	0	0	14	7	21	0
	98n	0	0	0	21,140	0	0	10	21,150	0
	990	0	0	0	0	0	8	17	25	0
	99n	No reports	ĭ	ŭ	ŭ	•	3	- /		ĺ
	00o	0	0	0	0	0	19	10	29	0
	00n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commue	,					On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
1929-73-3	*,** 2,4-D butoxyethyl	88	NR	NR	NR	NR	NR	NR	NR	NR
	ester	95	3	510	0	0	0	510	0	510
		980	No nomenta	255	0	0	0	255	0	255
		98n 99o	No reports	255	0	0	0	255	0	255
		99n	No reports	233	Ŭ	· ·	Ŭ	233	Ü	200
		00o	4	255	0	0	0	255	0	255
04.00.4	******	00n	No reports) I D) I D		3.75	2.70	2170	3.70
94-80-4	*,** 2,4-D butyl ester	88 95	NR 1	NR 3	NR 0	NR 0	NR 0	NR 3	NR 0	NR 3
		93 98o	2	1	0	0	0	1	0	1
		98n	No reports	1	Ü	0	Ŭ	•	Ů	1
		99o	2	0	1	0	0	1	0	1
		99n	No reports	,				_		_
		00o 00n	2 No reports	4	1	0	0	5	0	5
2971-38-2	** 2,4-D chlorocrotyl		NO Teports NR	NR	NR	NR	NR	NR	NR	NR
	ester	95	No reports							
		98o	No reports							
		98n	No reports							
		99o 99n	No reports No reports							
		00o	No reports							
		00n	No reports							
1163-19-5	Decabromodi-	88	58	29,604	500	292	21,450	51,846	555,181	607,027
	phenyl oxide	95	140	39,283	3,846	11	204,248	247,388	716,245	963,633
		980 98n	144 1	31,114 0	3,168 0	0	191,253 310,000	225,535 310,000	715,484 0	941,019 310,000
		990	145	116,241	2,701	0	396,169	515,111	858,530	1,373,641
		99n	2	0	0	0	350,000	350,000	0	350,000
		00o	146	106,219	9,006	0	487,409	602,634	948,741	1,551,375
12/04/5/5	* D 1' 1	00n	3	0	0	0	400,837	400,837	0	400,837
13684-56-5	* Desmedipham	88 95	NR 1	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0
		98o	1	94	0	0	0	94	0	94
		98n	No reports							
		990	1	62	0	0	0	62	0	62
		99n	No reports	52	0	0	0	50	0	50
		00o 00n	No reports	52	0	0	0	52	0	52
1928-43-4	*,** 2,4-D 2-	88	NR	NR	NR	NR	NR	NR	NR	NR
	Ethylhexyl	95	11	2,765	250	0	0	3,015	3,131	6,146
	ester	98o	10	4,722	5	0	0	4,727	1,735	6,462
		98n	No reports	4 672	_	0	0	1 677	027	5 (04
		99o 99n	10 No reports	4,672	5	0	0	4,677	927	5,604
		00o	10	4,237	0	0	0	4,237	250	4,487
		00n	No reports					ĺ		

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(common)		Recyc	eled	Energy R	ecovery	Tr	eated	0 11	T 1	
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
*,**2,4-D butoxyethyl	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
ester	95	0	0	0	0	0	1,600	318	1,918	0
	980	0	0	0	0	0	0	76	76	0
	98n 99o	No reports 0	0	0	0	0	0	26	26	0
	99n	No reports	U	V	U	· ·	U	20	20	ľ
	00o	0	0	0	0	0	0	89	89	0
	00n	No reports								
*,**2,4-D butyl ester	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	600	0	3	603	0
	980 98n	0 No reports	0	0	0	9,400	0	1	9,401	0
	990	0	0	0	0	11,000	0	1	11,001	0
	99n	No reports	V	Ů	v	11,000	v	•	11,001	
	00o	0	0	0	0	11,900	0	4	11,904	0
	00n	No reports								
** 2,4-D chlorocrotyl	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
ester	95	No reports								
	98o 98n	No reports No reports								
	990	No reports								
	99n	No reports								
	00o	No reports								
	00n	No reports								
Decabromodiphenyl		NA	NA	NA	NA	NA	NA	NA	NA	NA
oxide	95 98o	992,673 264,731	144,205 88,843	0 385	18,686 3,214	32,138 43,588	322,935 262,535	947,336 910,885	2,457,973 1,574,181	3,794 0
	98n	0	0	0	0,214	43,388	0	310,000	310,000	0
	990	368,187	29,609	6,600	8,732	58,412	359,773	1,335,241	2,166,554	0
	99n	0	0	0	0	29,784	29,784	350,000	409,568	0
	00o	336,590	232,115	0	8,927	90,178	294,412	1,458,291	2,420,513	26
* D 1' 1	00n	0	0	0	0	19,500	0	420,337	439,837	0
* Desmedipham	88 95	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0
	93 980	0	0	0	0	0	1,150	94	1,244	0
	98n	No reports	ŭ	Ŭ	ŭ	ŭ	1,120	, .	1,2	Ů
	99o	0	0	0	0	0	691	62	753	0
	99n	No reports								
	00o	0	0	0	0	0	205	52	257	0
* ** 2 4 D 2 Ethydbayyd	00n	No reports	NT A	NIA	NT A	NIA	NI A	NIA	NIA	NIA
*,**2,4-D 2-Ethylhexyl ester	95	NA 36,531	NA 0	NA 0	NA 0	NA 0	NA 10,318	NA 5,468	NA 52,317	NA 0
	98o	7,870	0	0	0	0	14,179	6,334	28,383	0
	98n	No reports			•	-	,		.,,,,,	
	99o	13,250	0	0	0	0	9,898	6,150	29,298	0
	99n	No reports		_		_				
	00o	21,312	0	0	0	0	9,956	4,933	36,201	0
	00n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
53404-37-8	*,**	2,4-D 2-Ethyl-4- methylpentyl ester	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
2303-16-4	*	Diallate	88 95 980 98n 990 99n	No reports No reports No reports 1 No reports 3	0	0	0	0	0	0 170	0 178
			00o	No reports							
615-05-4		2,4-Diamino- anisole	00n 88 95 980 98n 990 99n 000 00n	No reports	1 0	0	0	0	1 0	0	1 0
39156-41-7		2,4-Diamino- anisole sulfate	88 95 980 98n 990 99n 000 00n	No reports	0	0	0	0	0	0	0
101-80-4		4,4'-Diaminodi- phenyl ether	88 95 980 98n	5 3 3 No reports	216 23 22	585 359 340	0 0 0	0 0 0	801 382 362	142 120 55	943 502 417
			990 99n 000 00n	No reports 3 No reports	169 336	359	0	0	618 695	0	659 695
95-80-7		2,4-Diamino- toluene	88 95 980 98n 990 99n 000 00n	2 5 3 2 2 4 2 3	2,988 500 1,954 5 629 35 466 4	250 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	3,238 500 1,954 5 629 35 466 4	0 0 0 54,062 0 774 0	3,238 500 1,954 54,067 629 809 466 131

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

<u>(commueu)</u>		Recyc	eled	Energy R	ecovery	Т	reated	Quantity	Total	Non-Produc-
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Released On-and Off-site Pounds	Production- related Waste Managed Pounds	tion-related Waste Managed Pounds
*,**2,4-D 2-Ethyl-4- methylpentyl ester	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
* Diallate	88 95 980 98n	NA No reports No reports 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0
	990 99n 00o	No reports 0 No reports	0	0	0	176,396	0	175	176,571	0
	00n	0	0	0	0	106,923	769	1	107,693	0
** 2,4-Diaminoanisol ** 2,4-Diaminoanisol sulfate	95 980 98n 990 99n 000 00n	NA No reports	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
** 4,4'-Diaminodi- phenyl ether	88 95 980 98n 990	NA 0 0 No reports	NA 0 0	NA 0 0	NA 0 0	NA 4,929 140	NA 380,289 4,483	NA 377 357	NA 385,595 4,980	NA 0 0
	99n 00o 00n	No reports 0 No reports	0	0	0	158	6,798	695	7,651	0
** 2,4-Diaminotoluer	ne 88 95 980 98n 990	NA 0 0 0 0	NA 0 0 0 0	NA 0 0 0 0	NA 0 0 0 0	NA 7,192 67,020 40,920 8,987	NA 29,774 360 162,187 0	NA 655 1,953 54,065 624	NA 37,621 69,333 257,172 9,611	NA 0 0 0 0
	990 99n 00o 00n	0 0 0	0 0 0	0 0 0	0 0 0	778,686 9,055 529,584	0 250 0	795 715 131	779,481 10,020 529,715	0 0 0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
25376-45-8		Diaminotoluene (mixed isomers)	88 95 980 98n 990 99n 000 00n	13 11 13 2 11 6 13 5	21,097 9,594 13,523 10 10,381 287 8,956 260	3,288 5,522 5,785 0 28,633 1 1,929	174,000 7,050 13,000 0 6,200 0 23,000	295 55 205 0 14 0 13	198,680 22,221 32,513 10 45,228 288 33,898 260	289,591 28,625 12,531 0 15,912 1,030 9,026 377	488,271 50,846 45,044 10 61,140 1,318 42,924 637
333-41-5	*	Diazinon	88 95 980 98n 990 99n 000 00n	NR 31 29 5 32 5 29 5	NR 3,245 13,564 15 26,532 15 13,088	NR 8 11 0 13 0 13 1,300	NR 0 0 0 0 0 0	NR 0 0 0 0 0 0	NR 3,253 13,575 15 26,545 15 13,101 1,316	NR 1,560 1,955 157 2,326 75 2,321	NR 4,813 15,530 172 28,871 90 15,422 1,316
334-88-3		Diazomethane	88 95 980 98n 990 99n 000 00n	No reports No reports No reports No reports 1 No reports No reports No reports	4	0	0	0	4	0	4
132-64-9		Dibenzofuran	88 95 980 98n 990 99n 000 00n	110 37 41 3 38 1 43 2	71,093 18,704 93,615 615 57,743 4 33,392	1,510 2,843 29 0 20 0 16	0 0 0 0 0 0	9,929 220 56,670 0 40 0	82,532 21,767 150,314 615 57,803 4 33,408	181,799 19,824 13,304 0 16,835 0 11,370	264,331 41,591 163,618 615 74,638 4 44,778
96-12-8		1,2-Dibromo-3- chloropropane	88 95 980 98n 990 99n 000 00n	No reports No reports 1 No reports 1 No reports 1 No reports	0	0 0	0 0	0 0	0 0	0 6 0	0
106-93-4		1,2-Dibromo- ethane	88 95 980 98n 990 99n 000 00n	2 34 19 12 1 13 2 16 3	63,342 12,372 10,047 0 9,103 5 13,821	1,011 306 6 0 11 1 11	6,882 0 0 0 0 0 0 69	259 256 1 0 7 0 0	71,494 12,934 10,054 0 9,121 6 13,901	27,924 3 0 0 35,514 5 1,829	99,418 12,937 10,054 0 44,635 11 15,730

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	eled	Energy	Recovery	Т	reated	0	T-4-1	Non Donadon
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
** Diaminotoluene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
(mixed isomers)	95	0	0	755,917	386,996	362,357	1,923,183	48,109	3,476,562	3,550
	98o	0	0	2,714,193	4,287,968	669,862	1,072,322	44,224	8,788,569	255
	98n 99o	0	0 82,392	2 202 222	10,092	961,202 340,504	516.564	13	971,307 12,217,847	0
	990 99n	0	02,392	2,202,232	9,014,291 70,190	1,219,290	516,564 2,922	61,864 12,470	1,304,872	0
	00o	0	0	2,815,016	10,022,331	801,315	910,292	41,638	14,590,592	12
	00n	0	0	0	11,106	1,365,713	791	208	1,377,818	0
* Diazinon	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	21,330	0	0	1	66,150	7,596	4,355	99,432	0
	98o	53,095	0	0	0	37,803	33,649	15,018	139,565	0
	98n	0	0	0	0	180,882	4	162	181,048	0
	990	63,631	0 97	0	0	86,025	57,255	26,738	233,649	0
	99n 00o	0 27,782	0	0	0	295,239 92,121	0 65,953	80 15,402	295,416 201,258	0
	000 00n	0	0	0	0	291,882	295	1,316	293,493	0
Diazomethane	88	NA	NA	NA	NA	NA	NA NA	NA	NA	NA
	95	No reports								
	98o	No reports								
	98n	No reports								
	990	0	0	0	0	232	0	4	236	0
	99n	No reports								
	00o 00n	No reports No reports								
Dibenzofuran	88	NO TEPOTIS NA	NA	NA	NA	NA	NA	NA	NA	NA
Diochzoraran	95	70,546	25,036	113	176	405,125	1,471	37,508	539,975	13,217
	98o	131,734	4,920	230,475	92,830	26,678	5,981	119,032	611,650	1,300
	98n	0	0	0	1,352,711	32,439	0	615	1,385,765	0
	99o	109,749	1,450	210,545	96,365	31,728	1,887	77,457	529,181	0
	99n	0	0	0	0	77,842	0	4	77,846	0
	00o	182,354	290	0	23,827	29,206	53,569	43,968	333,214	0
*,**1,2-Dibromo-3-	00n 88	0 NA	0 NA	0 NA	0 NA	77,841 NA	0 NA	0 NA	77,841 NA	0 NA
chloropropane	95	No reports	INA	INA	INA	INA	INA	INA	INA	INA
emoropropune	98o	No reports								
	98n	0	0	0	0	0	0	0	0	0
	99o	No reports								
	99n	0	0	0	0	29,000	0	3	29,003	0
	00o	No reports								
th shift 4 0 70 11	00n	0	0	0	0	14,947	773	1	15,721	0
*,**1,2-Dibromo-	88 05	NA 5 000	NA	NA 60	NA 17	NA 24 174	NA 72.467	NA 11 740	NA 122 458	NA
ethane	95 98o	5,000 0	0	60 0	17 8,701	34,174 17,054	72,467 863	11,740 9,899	123,458 36,517	0
	980 98n	0	0	0	0,701	17,034	0	9,099	0	0
	990	0	0	0	120,000	22,252	58,073	9,226	209,551	791
	99n	0	0	0	0	84,312	0	7	84,319	0
	00o	87	0	20,180	156,034	18,210	2,850	13,398	210,759	22
	00n	0	0	0	0	41,471	721	1	42,193	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(000000							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
124-73-2		Dibromotetra-	88	NR	NR	NR	NR	NR	NR	NR	NR
		fluoroethane (Halon 2402)	95 980 98n	No reports No reports	10	0	0	0	10	0	10
			990 99n	1 No reports	0	0	0	0	0	0	0
			00o 00n	1 No reports	0	0	0	0	0	0	0
84-74-2	*	Dibutyl phthalate	88	126	204,058	14,339	350,000	6,395	574,792	113,068	687,860
		J P	95	126	104,833	3,981	390,000	1,402	500,216	25,991	526,207
			98o	109	33,577	206	210,000	5,480	249,263	25,676	274,939
			98n	62	834	0	0	0	834	560	1,394
			99o	118	35,606	273	290,000	23,880	349,759	41,342	391,101
			99n	69	1,126	6	0	9,421	10,553	9,006	19,559
			00o	133	84,856	131	150,000	25,020	260,007	21,600	281,607
1010 00 0	*	D' 1	00n	57	473	0	250	1,440	2,163	1,443	3,606
1918-00-9	r	Dicamba	88 95	NR 6	NR 12,580	NR 250	NR 113,600	NR 0	NR 126,430	NR 0	NR 126,430
			93 980	9	1,207	59	32,000	0	33,266	2,100	35,366
			98n	2	1,207	0	0	0	10	2,100	87
			990	13	1,259	37	18,600	0	19,896	140	20,036
			99n	2	2	0	0	0	2	87	89
			00o	17	1,161	6	4,500	0	5,667	170	5,837
			00n	2	2	0	0	0	2	57	59
99-30-9	*	Dichloran	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	4	10	0	0	0	10	0	10
			980	3	0	0	0	0	0	0	0
			98n 99o	1 3	0	0	0	0	0	0	0
			99n	1	0	0	0	0	0	0	0
			00o	3	0	0	0	0	0	0	0
			00n	No reports							
95-50-1	*	1,2-Dichloro-	88	45	530,535	11,624	20,000	13,354	575,513	38,266	613,779
		benzene	95	28	271,539	3,789	26,000	11,521	312,849	28,228	341,077
			980	36	208,463	2,352	3,800	1,245	215,860	6,076	221,936
			98n	10	1,036	2.000	5	0	1,046	610	1,656
			990	35	308,537	2,069	2,500 0	475 65.502	313,581	7,920	321,501
			99n 00o	10 33	1,741 120,846	1,206	1,600	65,593 778	67,335 124,430	1,566 9,540	68,901 133,970
			000 00n	8	296	1,200	250	0	546	292	838
541-73-1		1,3-Dichloro-	88	6	15,282	1,281	0	0	16,563	290	16,853
		benzene	95	6	7,528	526	0	0	8,054	0	8,054
			98o	6	4,018	203	0	0	4,221	0	4,221
			98n	2	5	0	0	0	5	0	5
			990	8	3,640	807	0	0	4,447	0	4,447
			99n	2	5.016	1	0	0	10	30	40
			000	8	5,816	210	0	0	6,026	0	6,026
			00n	5	11	0	0	0	11	219	230

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

			Recy	cled	Energy R	Recovery	T	reated	0 "	T. 4.1	N D I
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
	Dibromotetra-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	fluoroethane (Halon 2402)	95 98o	No reports 127,308	0	0	0	0	0	10	127,318	0
	(паюн 2402)	980 98n	No reports	U	U	U	U	U	10	127,318	U
		99o	130,692	0	0	0	0	0	0	130,692	0
		99n	No reports 139,173	0	0	0	0	0	0	120 172	0
		00o 00n	No reports	U	U	U	0	0	0	139,173	0
*	Dibutyl phthalate	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	51,458	26,123	1,086,538	172,397	314,761	115,699	386,156	2,153,132	173,700
		98o	30,100	12,207	1,028,453	215,856	177,719	95,702	280,203	1,840,240	0
		98n 99o	0 27,111	0 5,499	0 913,586	288,896 195,636	89,847 329,784	1,697 161,391	668 405,006	381,108 2,038,013	0 74
		990 99n	17,911	0	913,380	24,730	355,078	12,444	15,096	425,259	457
		00o	23,730	7,055	545,332	165,035	484,248	97,654	311,168	1,634,222	0
		00n	0	0	128	69,984	205,470	3,062	1,717	280,361	0
*	Dicamba	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	510	0	0	0	0	29	126,662	127,201	0
		98o	0	0	0	0	37,557	65,900	35,366	138,823	0
		98n	0	0	0	0	22,223	0	87	22,310	0
		99o 99n	0	0	0	0	39,143 27,830	42,080 0	20,039 90	101,262 27,920	0
		00o	0	0	0	0	61,680	8,210	6,781	76,671	0
		00n	0	0	0	0	22,181	4	59	22,244	0
*	Dichloran	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	0	50	25	10	85	0
		98o	0	0	0	0	0	0	0	0	0
		98n	0	0	0	0	39,948	0	0	39,948	0
		99o 99n	0	0	0	0	0 55,619	0	0	0 55.610	0
		99n 00o	0	0	0	0	33,019	0	0	55,619 0	0
		000 00n	No reports	U	V	U	V	O	V	· ·	· ·
*	1,2-Dichloro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	benzene	95	5,527,161	3,626,496	354,610	763,438	172,717	1,999,033	340,963	12,784,418	153
		98o	11,995,819	2,222,086	1,395,535	513,369	374,719	973,511	216,633	17,691,672	62
		98n	2,230,878	1 279 067	159	42,595	653,679	4,239,558	1,443	7,168,312	2
		99o 99n	11,893,164 1,705,966	1,378,067	3,964,034 412	546,751 43,256	713,178 1,303,837	1,496,579 314,609	327,728 67,005	20,319,501 3,435,085	258 53
		99n 00o	13,757,219	968	3,373,136	959,513	828,036	880,362	135,141	19,934,375	29
		00n	0	0	237	766	877,179	405	408	878,995	0
	1,3-Dichloro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	benzene	95	5,068	1,291	0	0	10	3,989	8,079	18,437	36
		98o	1,988	950	0	0	10	2,555	4,260	9,763	1
		98n	0	0	68 200	0	20,077	202	1 4 420	20,280	0
		99o 99n	2,129 0	930 0	68,399 0	0	20,895 247,556	3,169 0	4,439 37	99,961 247,593	5 0
		99n 00o	10,193	930	25,323	0	120	47,684	6,120	90,370	1
		00n	0	0	0	0	121,461	857	230	122,548	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
106-46-7	*,**	1,4-Dichloro- benzene	88 95 980	24 24 19	1,891,419 242,372	6,153 1,287 1,706	4,000	1,300 3,100	1,902,872 246,759 187,165	750 3,328 0	1,903,622 250,087 187,165
			98n 990	11 23	181,899 417 178,210	1,700	3,100 0 7,300	460 0 1,370	417 188,760	81 0	187,163 498 188,760
			99n 00o	6 17	44 117,860	1,193	7,946 0 7,946	0	45 127,180	18 0	63 127,180
25321-22-6	**	Dichlorobenzene	00n 88	8 15	19 163,684	5 40	255 0	0	279 163,724	258 19,672	537 183,396
		(mixed isomers)	95 98o	9 6	5,443 14,218	0	0 0	0	5,443 14,218	9	5,452 14,226
			98n 99o	8 5	319 13,796	250	0	0	569 13,796	1,498 0	2,067 13,796
			99n 00o 00n	7 7 5	52 10,350 61	0 0 0	0 0 0	0 0 0	52 10,350 61	357 709 42	409 11,059 103
91-94-1	**	3,3'-Dichloro- benzidine	88 95	14	255 11	752 0	0	0	1,007 11	209,785 2,400	210,792 2,411
			980 98n	1 3	255 6	0 0	0	0 0	255 6	41,600 0	41,855 6
			990 99n	2 4	15 5	0	0	0	15 5	44,145 161	44,160 166
			00o 00n	1 4	10 17	0	0	0	10 17	24,000	24,010 17
612-83-9	**	3,3'-Dichloro- benzidine dihydrochloride	88 95 980	NR 13 16	NR 0 250	NR 0 5	NR 0 0	NR 0 0	NR 0 255	NR 0 6,790	NR 0 7,045
			98n 99o 99n	No reports	7	5	0	0	12	3,400	3,412
			00o 00n	No reports 16 No reports	16	5	0	0	21	2,300	2,321
64969-34-2	**	3,3'-Dichloro- benzidine	88 95	NR 1	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0
		sulfate	980 98n	1 No reports	0	0	0	0	0	260	260
			990 99n	1 No reports	0	0	0	0	0	0	0
			00o 00n	No reports	0	0	0	0	0	0	0
75-27-4	**	Dichlorobromo- methane	88 95	1	13,440 2,300	0	0	0 50	13,440	0	13,440 2,350
		пешапе	93 980 98n	1 No reports	2,370	0	0	90	2,350 2,460	0	2,350
			990 99n	2 No reports	3,405	0	0	80	3,485	0	3,485
			00o 00n	2 1	5,074 0	0	0	168 0	5,242 0	0	5,242 0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	eled	Energy R	Recovery	Tr	eated	0	T-4-1	N Dd
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
*,**1,4-Dichloro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzene	95	705,345	34,882	42,157	11,053	73,030	621,194	248,721	1,736,382	1,606
	98o	2,602,061	0	134,272	6,691	1,766	299,525	185,980	3,230,295	108
	98n	36,560	0	1	149,250	376,335	1,350	256	563,752	0
	99o	1,927,605	0	416,356	2,702	18,350	390,802	188,336	2,944,151	49,304
	99n	28,229	0	0	8,306 0	658,480	1 341,596	48 126,487	695,064 2,343,031	5 27
	00o 00n	1,871,164 0	0 0	0	1,824	3,784 400,813	9,359	120,487	412,156	0
** Dichlorobenzene	88	NA	NA	NA	1,624 NA	400,813 NA	9,339 NA	NA	412,130 NA	NA
(mixed isomers)	95	0	0	266,997	5,165	79,032	3,684	5,452	360,330	0
(mixed isomers)	98o	0	0	191,010	611	248,100	6,720	14,226	460,667	0
	98n	0	4,724	2,147	712,291	321,134	328	1,849	1,042,473	0
	99o	0	0	1,567,000	0	1	13,402	13,796	1,594,199	0
	99n	0	0	613	665,533	207,957	0	154	874,257	11
	00o	0	0	249,490	717	180,000	6,641	10,350	447,198	0
	00n	0	0	0	856,180	235,813	0	104	1,092,097	0
** 3,3'-Dichloro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzidine	95	0	0	0	22,000	14,000	1,600	2,701	40,301	0
	980	0	0	0	0	10,000	45,000	42,000	97,000	0
	98n	0	0	0	0	65,021	63	2	65,086	0
	99o	0	0	0	0	11,787	64,065	44,001	119,853	0
	99n	0	0	0	150,000	237,063	24.000	163	237,226	0
	00o 00n	0	0 0	0	150,000 0	3,900 180,513	24,000 780	19,000 17	196,900 181,310	0
** 3,3'-Dichloro-	88	NA	NA	NA	NA	180,313 NA	NA	NA	181,310 NA	NA
benzidine	95	0	0	0	0	12,797	22,000	0	34,797	0
dihydrochloride	98o	0	0	0	0	6,716	48,000	6,801	61,517	0
amy aroundina	98n	No reports	ŭ	Ů	Ů	0,710	.0,000	0,001	01,517	
	99o	0	0	0	0	4,644	85,002	3,402	93,048	0
	99n	No reports				ŕ	ŕ		·	
	00o	0	0	0	17,000	7,077	37,400	2,303	63,780	0
	00n	No reports								
** 3,3'-Dichloro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzidine	95	0	0	0	0	1,300	2,400	0	3,700	0
sulfate	980	0	0	0	0	0	6,000	260	6,260	0
	98n	No reports	0	0	0	0	12.000	0	12.000	
	990	0	0	0	0	0	12,000	0	12,000	0
	99n 00o	No reports 0	0	0	6 800	0	5 700	0	12,500	0
	000 00n	No reports	U	U	6,800	U	5,700	U	12,500	0
** Dichlorobromo-	88	NA NA	NA	NA	NA	NA	NA	NA	NA	NA
methane	95	0	0	0	0	0	0	2,300	2,300	0
	98o	0	0	0	0	0	0	2,400	2,400	0
	98n	No reports		-	Ĭ	-	,	_,		
	990	0	0	0	0	470	4	3,501	3,975	0
	99n	No reports							<u> </u>	
	00o	0	0	0	0	7,870	0	5,162	13,032	0
	00n	0	0	0	0	0	0	0	0	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(000000						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
764-41-0	1,4-Dichloro-2- butene	88 95 980 98n 990 99n	NR 2 3 1 3 1	NR 3,950 1,713 0 910 26	NR 0 0 0 0	NR 4,500 5,700 0 1,200	NR 0 0 0 0	NR 8,450 7,413 0 2,110 27	NR 0 0 0 0 4	NR 8,450 7,413 0 2,110 31
110-57-6	trans-1,4-Dichloro- 2-butene	000 00n 88 95 980	4 2 NR 1 1	915 0 NR 137 1	0 0 NR 0 0	1,100 0 NR 0 0	0 0 NR 0 0	2,015 0 NR 137 1	0 0 NR 0 0	2,015 0 NR 137 1
		98n 99o 99n 00o	No reports 1 2 1	1 255 5	0 0 0	0 0 0	0 0 0	1 255 5	0 158 0	1 413 5
1649-08-7	1,2-Dichloro-1,1- difluoroethane (HCFC-132b)	00n 88 95 980 98n 990 99n 000	1 NR 1 2 1 2 1 2	250 NR 890 837 5 17,310 10 9,225	0 NR 20 48 0 45 0	0 NR 0 0 0 0	0 NR 0 0 0 0	250 NR 910 885 5 17,355 10 9,270	0 NR 89 0 0 0 5	250 NR 999 885 5 17,355 15 9,270
75-71-8	* Dichlorodifluoro- methane (CFC-12)	00n 88 95 980 98n 990 99n 000 00n	NR 137 56 5 46 5 39	10 NR 3,249,946 728,985 24,607 717,749 18,579 542,974 10,137	0 NR 17,172 13,005 0 5 1	0 NR 89 0 250 0	0 NR 0 0 0 0 0	10 NR 3,267,207 741,990 24,857 717,754 18,580 542,979 10,138	5 NR 320 0 107 8,668 32 0	15 NR 3,267,527 741,990 24,964 726,422 18,612 542,979 10,139
107-06-2	*,** 1,2-Dichloro- ethane	88 95 980 98n 990 99n 000 00n	110 83 71 19 72 16 74 19	10,137 4,615,179 1,292,842 708,117 284 540,754 814 517,298 2,278	40,527 5,194 2,337 271 833 71 791 48	1,452,084 24,339 2,178 56,816 1,171 64,294 136	2,166 256 886 0 2,983 0 2,271	6,109,956 1,322,631 713,518 57,371 545,741 65,179 520,496 173,613	166,131 23,671 143,735 23,011 665,922 2,299 399,656 16,345	6,276,087 1,346,302 857,253 80,382 1,211,663 67,478 920,152 189,958
540-59-0	1,2-Dichloro- ethylene	88 95 980 98n 990 99n 000 00n	10 10 11 7 9 8 11	126,478 8,527 5,383 533 4,901 1,539 4,474 221	95 270 44 0 390 1 575 5	0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0	126,574 8,797 5,427 533 5,291 1,540 5,049 226	87,614 0 0 387 0 13,282 7 127	214,188 8,797 5,427 920 5,291 14,822 5,056 353

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(continuea)		Recy	vcled	Energy F	Recovery	Т	reated	0 1"	T. ()	N D I
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
1,4-Dichloro-2-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
butene	95	0	0	0	13,000	3,300,000	312,500	8,450	3,633,950	0
	98o	1,800,000	0	0	0	3,753,000	124,000	7,413	5,684,413	0
	98n 99o	0	0	0	0	0 5,800,000	0 13,390	0 2,110	5,815,500	0
	99n	0	0	0	0	60,000	13,390	2,110	60,026	0
	00o	0	0	0	0	7,000,000	105,978	2,015	7,107,993	0
	00n	0	0	0	0	16,055	781	0	16,836	0
trans-1,4-Dichloro-		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-butene	95	0	0	0	0	0	0	137	137	0
	980	0	0	0	0	12,000	0	1	12,001	0
	98n 99o	No reports 0	0	0	0	13,000	0	1	13,001	0
	99n	0	0	0	0	129,737	0	205	129,942	0
	00o	0	0	0	0	11,000	0	5	11,005	0
	00n	0	0	0	0	90,587	0	81	90,668	0
1,2-Dichloro-1,1-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
difluoroethane	95	0	0	0	0	98,000	22,000	1,000	121,000	0
(HCFC-132b)	980	0	0	0	0	320,000	61,573	880	382,453	0
	98n 99o	0	0	0	0	39,584 370,000	0 91,532	3 17,010	39,587 478,542	0
	99n	0	0	0	0	27,318	91,332	2	27,320	0
	00o	0	0	0	15,735	560,000	78,758	9,225	663,718	0
	00n	0	0	0	0	55,032	0	4	55,036	0
* Dichlorodifluoro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
methane	95	552,377	466,714	408,747	225	126,167	114,628	3,241,865	4,910,723	18,429
(CFC-12)	980 98n	80,253 0	213,260	0	0	38,976 199,704	79,124 8	744,610 24,723	1,156,223 224,435	0 0
	990	246,309	178,692	0	0	170	140,671	658,040	1,223,882	10,653
	99n	0	0	0	0	292,534	135	18,607	311,276	0
	00o	3,953	155,985	0	0	471	156,843	542,589	859,841	196
	00n	256,910	0	0	0	204,007	789	10,139	471,845	0
*,**1,2-Dichloroethane		NA	NA	NA	NA	NA	NA	NA	NA	NA
	95 98o	59,314,824 435,903,074	16,921,135 11,350,396	32,535,232 49,197,699	787,622 194,842	74,650,467 59,612,529	1,630,158 1,892,410	1,325,188 833,090	187,164,626 558,984,040	23,294 69,869
	980 98n	455,905,074	11,330,390	2,617	338	1,389,729	4,384	59,112	1,456,180	09,809
	990	397,977,917	14,982,020	35,619,138	266,614	75,760,698	2,137,851	1,067,395	527,811,633	11,336
	99n	213	0	1,707	47,058	3,251,128	144,444	68,188	3,512,738	0
	00o	434,205,728	12,290,493	39,223,474	347,949	289,745,796	2,222,239	951,825	778,987,504	9,247
	00n	76,950	0	0	73,373	2,662,723	264,372	175,704	3,253,122	43
1,2-Dichloro-	88	NA 210 000	NA 6 100	NA 2 871 400	NA	NA	NA 1 094	NA 9 761	NA	NA
ethylene	95 980	310,000 1,560,000	6,100 1,617,199	2,871,400 621,000	0	4,680,089 3,946,600	1,984 2,803	8,761 5,304	7,878,334 7,752,906	121 143
	980 98n	1,300,000	1,617,199	021,000	0	1,163,150	2,803	631	1,163,781	0
	99o	4,250,000	1,463,455	313,000	0	14,301,329	7,070	7,511	20,342,365	121
	99n	255,988	0	0	411,928	1,745,805	165	1,279	2,415,165	10
	00o	420,000	345,271	311,600	0	10,654,635	6,378	4,308	11,742,192	542
	00n	65,971	0	0	337,796	262,574	202	223	666,766	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

CAS Number Chemical Year Forms Number Pounds Pound	Off-site Releases Pounds NR 11,881,081 8,234,346 32,515 8,294,412 25,178 8,336,546 13,315 NR 204,119 138,442 13
fluoroethane (HCFC-141b) 980 235 7,973,111 54 0 30,256 8,003,421 230,92 98n 11 31,419 0 0 0 0 31,419 1,09 990 229 7,974,045 419 0 20,128 7,994,592 299,82 99n 11 23,516 0 0 0 0 23,516 1,66 000 233 8,020,816 173 0 22,571 8,043,560 292,98 00n 12 13,065 0 0 0 0 13,065 225 75-43-4 Dichlorofluoromethane 95 4 173,117 2 0 0 0 173,119 31,00 (HCFC-21) 980 3 129,467 0 0 0 0 129,467 8,975	11,881,081 8,234,346 32,515 8,294,412 25,178 8,336,546 13,315 NR 204,119 138,442 13 139,569
98n 11 31,419 0 0 0 0 31,419 1,000 990 229 7,974,045 419 0 20,128 7,994,592 299,82 99n 11 23,516 0 0 0 0 23,516 1,66 000 233 8,020,816 173 0 22,571 8,043,560 292,98 00n 12 13,065 0 0 0 0 13,065 225 75-43-4 Dichlorofluoromethane 95 4 173,117 2 0 0 0 173,119 31,000 (HCFC-21) 980 3 129,467 0 0 0 0 129,467 8,975	32,515 8,294,412 25,178 8,336,546 13,315 NR 204,119 138,442 13 139,569
99n 11 23,516 0 0 0 23,516 1,66 00 0 23,516 1,66 00 0 23,516 1,66 00 0 0 23,516 1,66 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25,178 8,336,546 13,315 NR 204,119 138,442 13 139,569
13,065 0 0 0 13,065 25	13,315 NR 204,119 138,442 13 139,569
methane 95 4 173,117 2 0 0 173,119 31,00 (HCFC-21) 980 3 129,467 0 0 0 129,467 8,97	204,119 138,442 13 139,569
	13 139,569
990 4 128,659 0 0 0 128,659 10,91 99n 2 5 0 0 75,231 75,236	
000 4 123,309 0 0 0 123,309 10,57 00n 3 5 0 0 37,076 37,081	133,879 37,081
75-09-2 *,** Dichloromethane 88 1,675 129,124,529 349,960 1,478,833 157,156 131,111,478 7,806,32 95 1,012 58,305,923 28,620 1,140,335 2,064 59,476,942 180,13	
980 644 40,410,952 15,492 456,962 173,592 41,056,998 262,77	41,319,768
98n 198 469,904 262 33,702 10,127 513,995 99,83 99o 539 35,710,424 12,056 107,386 8,344 35,838,210 153,88	
99n 163 211,686 16 59,473 53,605 324,780 383,84 00o 482 30,635,855 10,016 108,170 747,966 31,502,007 258,73	
00n 151 146,613 276 91,639 90,147 328,675 57,70	386,383
127564-92-5 Dichloropenta- 88 NR	
980 1 6,520 0 0 0 6,520 8,90 98n No reports	
990 1 9,890 0 0 0 9,890 4,60	14,490
000 1 11,560 0 0 0 11,560 4,60 0 0 0 0 15,560 0 0 0 0 1 1,560 0 0 0 1 1,560 0 0 0 0 1 1,560 0 0 0 0 0 0 1 1,560 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16,160
13474-88-9 1,1-Dichloro- 88 NR	. NR
fluoropropane 980 No reports	
990 No reports	
99n No reports 000 No reports	
00n No reports 111512-56-2 1,1-Dichloro-	. NR
1,2,3,3,3-penta- fluoropropane 980 No reports	
(HCFC-225eb) 98n No reports	
990 No reports 99n No reports	
000 No reports 00n No reports	

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

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^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commueu)		Recy	vcled	Energy	Recovery	Т	Treated	0 11	T I.	N. B. I
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
1,1-Dichloro-1- fluoroethane (HCFC-141b) Dichlorofluoro- methane (HCFC-21)	88 95 980 98n 990 99n 000 00n 88 95 980 98n 990	NA 5,429,772 155,007 357,028 176,231 274,970 213,736 426,388 NA 0 0	NA 381,393 147,221 3,660 186,250 4,238 177,464 0 NA 0 0 0 0 0	NA 0 0 0 0 0 0 2,121 NA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NA 99,548 660,660 148 751,731 1,379 575,302 2,629 NA 7,200 0 0	NA 2,018,829 801,429 271,622 993,727 238,799 1,498,231 320,910 NA 1,586 0 288,607 16,463 21,850	NA 846,290 421,550 4,671 846,854 31,708 1,103,560 8,366 NA 23,800 5,487 183 13,104	NA 11,819,544 8,023,510 32,162 8,324,068 22,740 8,229,329 12,553 NA 204,492 138,067 13 139,655 75,234	NA 20,595,376 10,209,377 669,291 11,278,861 573,834 11,797,622 772,967 NA 237,078 143,554 288,803 169,222 97,084	NA 38,945 75,867 0 0 0 0 0 NA 0 0 0
	00o 00n	0	0	0	0 0	0 44,583	60 168	133,879 37,083	133,939 81,834	0
*,**Dichloromethane Dichloropenta- fluoropropane	88 95 980 98n 990 99n 000 00n 88 95 980 99n 000 00n	NA 84,723,606 136,303,643 18,386,857 149,800,223 10,282,608 138,769,954 8,697,312 NA No reports 0 No reports 0 No reports	NA 14,116,539 15,214,012 2,100,136 11,319,120 1,252,884 10,556,952 609,393 NA 0	NA 5,240,223 8,885,675 728 7,937,093 2,351 6,221,624 814,791 NA 0	NA 3,234,456 3,022,379 5,286,006 4,696,123 10,060,265 3,132,659 9,035,912 NA 0 0	NA 25,614,610 26,836,797 2,646,686 455,912,875 5,022,652 102,869,203 6,891,494 NA 0	NA 11,966,476 14,261,243 7,366,736 15,168,472 5,186,585 15,585,426 6,868,188 NA 8,900 4,600	NA 59,549,789 41,317,411 554,645 35,644,487 481,507 30,831,563 863,905 NA 6,500 9,900 11,000	NA 204,445,699 245,841,160 36,341,794 680,478,393 32,288,852 307,967,381 33,780,995 NA 15,400 14,500	NA 72,659 102,499 257 700,400 5,557 801,840 3,550 NA 0
1,1-Dichloro- 1,2,2,3,3-penta- fluoropropane (HCFC-225cc)	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloro- 1,2,3,3,3-penta- fluoropropane (HCFC-225eb)	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(60111111111111111111111111111111111111						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
422-44-6	1,2-Dichloro- 1,1,2,3,3-penta- fluoropropane (HCFC-225bb)	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
431-86-7	1,2-Dichloro- 1,1,3,3,3-penta- fluoropropane (HCFC-225da)	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
507-55-1	1,3-Dichloro- 1,1,2,2,3-penta- fluoropropane (HCFC-225cb)	88 95 980 98n 990 99n 000 00n	NR 1 3 1 2 1 2 No reports	NR 255 69,043 1,000 42,310 1,000 23,573	NR 0 0 0 0 0	NR 0 0 0 0 0 0	NR 0 0 0 0 0	NR 255 69,043 1,000 42,310 1,000 23,573	NR 0 0 0 0 0	NR 255 69,043 1,000 42,310 1,000 23,573
136013-79-1	1,3-Dichloro- 1,1,2,3,3-penta- fluoropropane (HCFC-225ea)	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
128903-21-9	2,2-Dichloro- 1,1,1,3,3-penta- fluoropropane (HCFC-225aa)	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
422-48-0	2,3-Dichloro- 1,1,1,2,3-penta- fluoropropane (HCFC-225ba)	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	eled	Energy R	ecovery	Tr	eated	Quantity	Total	Non Duoduo
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
1,2-Dichloro- 1,1,2,3,3-penta- fluoropropane (HCFC-225bb)	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloro- 1,1,3,3,3-penta- fluoropropane (HCFC-225da)	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloro- 1,1,2,2,3-penta- fluoropropane (HCFC-225cb)	88 95 980 98n 990 99n 000 00n	NA 100 4,747 0 39,675 0 12,000 No reports	NA 0 0 500 0 450 6,914	NA 0 0 0 0 0 0	NA 0 0 0 390 0 4	NA 0 0 0 0 0 0	NA 0 0 0 1,700 0	NA 400 69,043 1,275 42,310 850 23,555	NA 500 73,790 1,775 84,075 1,300 42,473	NA 0 7,000 0 0 0
1,3-Dichloro- 1,1,2,3,3-penta- fluoropropane (HCFC-225ea)	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloro- 1,1,1,3,3-penta- fluoropropane (HCFC-225aa)	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
2,3-Dichloro- 1,1,1,2,3-penta- fluoropropane (HCFC-225ba)	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
422-56-0		3,3-Dichloro- 1,1,1,2,2-penta- fluoropropane (HCFC-225ca)	88 95 980 98n 990 99n 000 00n	NR 1 3 1 2 1 2 No reports	NR 255 56,258 1,000 35,012 1,000 18,693	NR 0 0 0 0 0	NR 0 0 0 0 0	NR 0 0 0 0 0	NR 255 56,258 1,000 35,012 1,000 18,693	NR 0 0 0 0 0	NR 255 56,258 1,000 35,012 1,000 18,693
97-23-4	*	Dichlorophene	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
120-83-2		2,4-Dichloro- phenol	88 95 980 98n 990 99n 000 00n	8 3 5 3 4 3 3 3	1,403 3,580 490 108 465 57 849	107 245 0 0 30 1 51	17,700 15,900 9,000 0 9,700 0 5,700	2 0 0 0 1 0 0 0	19,212 19,725 9,490 108 10,196 58 6,600 0	350 0 0 0 0 19 0	19,562 19,725 9,490 108 10,196 77 6,600 0
78-87-5	*	1,2-Dichloro- propane	88 95 980 98n 990 99n 000 00n	12 11 11 4 11 4 11 6	1,395,304 616,470 298,150 8 249,655 23 263,838 108	23,785 4,344 1,122 0 9,242 1 431	0 0 0 0 0 0 0	3,400 20 32 0 30 0 382	1,422,489 620,834 299,304 8 258,927 24 264,651 118	1,131 1,371 267 0 6,856 13 5	1,423,620 622,205 299,571 8 265,783 37 264,656
10061-02-6	**	trans-1,3-Dichloro- propene	88 95 980 98n 990 99n 000 00n	NR 1 3 1 6 1 5	NR 256 1,670 70 512 85 561 60	NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NR 0 0 0 0 0 0	NR 0 1 0 0 0 0 0 0 0 0 0 0	NR 256 1,671 70 512 85 561 60	NR 0 0 0 0 0 0	NR 256 1,671 70 512 85 561 60
78-88-6	*	2,3-Dichloro- propene	88 95 980 98n 990 99n 000 00n	NR 5 5 1 5 No reports 5 No reports	NR 4,253 612 32 357 315	NR 0 490 0 900	NR 0 0 0 0 0	NR 0 0 0 0 0	NR 4,253 1,102 32 1,257 805	NR 0 1,200 0 0	NR 4,253 2,302 32 1,257 805

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	eled	Energy R	ecovery	T	reated	0	T-4-1	N D
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
3,3-Dichloro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1,2,2-penta-	95	60	0	0	0	0	0	300	360	0
fluoropropane	98o	3,851	0	0	0	0	0	56,558	60,409	5,700
(HCFC-225ca)	98n	0	410 0	0	0	0 0	1 400	1,040	1,450	0
	99o 99n	32,023 0	365	0	400	0	1,400 0	35,013 1,040	68,836 1,405	0
	00o	10,000	4,061	0	4	0	0	18,679	32,744	
	00n	No reports	1,001	v			Ü	10,079	32,711	Ĭ
Dichlorophene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
•	95	No reports								
	98o	No reports								
	98n	No reports								
	990	No reports								
	99n	No reports								
	00o 00n	No reports No reports								
2,4-Dichloropheno		NA NA	NA	NA	NA	NA	NA	NA	NA	NA
2,1 Biemoropheno	95	1,460	0	3	0	336,936	500	19,720	358,619	(
	98o	1,400	0	3	0	190,400	600	9,435	201,838	(
	98n	0	0	0	48,026	25,817	0	108	73,951	(
	99o	1,100	0	0	0	216,300	0	10,141	227,541	(
	99n	0	0	0	8,497	115,864	181	74	124,616	(
	00o	920	0	3	0	213,267	63	6,645	220,898	(
1,2-Dichloro-	00n 88	0 NA	0 NA	0 NA	0 NA	37,255 NA	809 NA	0 NA	38,064 NA	(NA
propane	95	56,000,000	0	28,380,000	0	11,573,182	7,768	620,353	96,581,303	1,200
propune	98o	26,800,000	0	10,700,000	0	15,610,350	1,161,416	301,901	54,573,667	1,200
	98n	0	0	0	0	689,377	22	4	689,403	(
	99o	9,200,000	0	5,109,000	2	22,414,813	3,604,795	260,891	40,589,501	10
	99n	0	0	0	0	347,173	0	35	347,208	(
	00o	84,350,000	52	15,981,364	93,118	195,413,875	344,044	266,464	296,448,917	(
4 12 D' 11	00n	0	0	0	0	618,017	786	115	618,918)
trans-1,3-Dichloro-	· 88 95	NA 0	NA 0	NA 11,000,000	NA 0	NA 0	NA 0	NA 250	NA 11,000,250	NA (
propene	93 980	7,900	0	5,210,238	9	20,505	430	1,640	5,240,722	(
	98n	0	0	0	0	0	0	70	70	
	990	50,000	0	0	180	6,845,015	242	510	6,895,947	
	99n	0	0	0	0	0	0	85	85	(
	00o	36,000	0	11,328	360	20,005	220	21	67,934	(
	00n	0	0	0	0	0	0	60	60	C
2,3-Dichloro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
propene	95 080	6,100,000	1	4,200,000	0	1,960,000	510,000	4,253	12,774,254	0
	980 98n	960,000 0	0	1,100,000 0	0	639,000 73,306	1,086,000 0	1,102 32	3,786,102 73,338	0
	9811 990	2,300,000	0	0	0	3,670,000	410,000	1,290	6,381,290	
	99n	No reports	3	Ü	J	5,070,000	110,000	1,270	0,501,270	
	00o	3,200,000	0	2,217,065	3	6,800,000	330	550,806	12,768,204	0
	00n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
542-75-6	*,** 1,3-Dichloro- propylene	88 95 980 98n 990 99n 000 00n	8 11 12 6 14 6 13	54,590 32,977 11,139 427 6,111 489 9,385 660	250 193 61 0 67 1 288	0 0 0 0 0 0 0 2	0 0 1 0 0 0 200	54,840 33,170 11,201 427 6,178 490 9,875 660	0 0 0 0 0 168 0	54,840 33,170 11,201 427 6,178 658 9,875 660
76-14-2	* Dichlorotetra- fluoroethane (CFC-114)	88 95 980 98n 990 99n 000 00n	NR 20 14 No reports 13 No reports 10 2	NR 1,017,652 827,613 933,663 917,455 403	NR 4,936 5 5	NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NR 1,022,588 827,618 933,668 917,460 403	NR 136 1 0	NR 1,022,724 827,619 933,668 917,460 403
34077-87-7	Dichlorotri- fluoroethane	88 95 980 98n 990 99n 000 00n	NR 1 1 No reports 1 No reports No reports	NR 1,000 1,699 5	NR 0 0 0	NR 0 0 0 0	NR 0 0 0 0	NR 1,000 1,699 5	NR 0 0 2 2	NR 1,000 1,699 7
90454-18-5	Dichloro-1,1,2- trifluoroethane	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
812-04-4	1,1-Dichloro- 1,2,2-trifluoro- ethane (HCFC-123b)	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
354-23-4	1,2-Dichloro- 1,1,2- trifluoroethane (HCFC-123a)	88 95 980 98n 990	NR No reports 1 No reports 1	NR 101,118 107,479	NR 5	NR 0 0	NR 0 0	NR 101,123 107,484	NR 0 0	NR 101,123 107,484
		99n 00o 00n	No reports 1 No reports	108,513	5	0	0	108,518	0	108,518

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

(commueu)		Recyc	eled	Energy R	Recovery	Tr	reated	0	T-4-1	N D de
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
*,**1,3-Dichloro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
propylene	95	4,892,986	470	11,930,000	123	969,916	2,481	33,404	17,829,380	240
	98o	1,932,000	0	6,000,000	16,645	1,084,262	42,734	10,800	9,086,441	0
	98n	0	0	0	14,109	89,306	80	427	103,922	0
	99o	870,000	0	0	26,166	890,170	120,870	8,687	1,915,893	0
	99n	0	0	0	0	296,500	20	653	297,173	0
	00o	2,943,000	0	24,000,000	191,953	8,072,751	22,308	9,443	35,239,455	0
* Dichlorotetra-	00n	0	0	0	0	172,135	882	428	173,445	0
Dicinorotetra-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA 0
fluoroethane	95	19,819	14,634	0	0	1,608,479	38,271	1,018,687	2,699,890	0
(CFC-114)	980 98n	231,484 No reports	17,299	0	0	1,022,895	39,052	827,470	2,138,200	U
	9811 990	195,012	13,065	0	0	38,821	130,807	918,710	1,296,415	18,960
	990 99n	No reports	13,003	U	U	30,021	130,807	910,/10	1,290,413	16,900
	000	0	7,996	0	0	56,638	103,489	917,607	1,085,730	0
	00n	148,891	0	0	0	13,293	0	403	162,587	0
Dichlorotri-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoroethane	95	0	0	0	0	716,409	0	968	717,377	0
	98o	0	0	0	0	35,000	0	1,699	36,699	0
	98n	0	0	0	0	29,974	0	7	29,981	0
	99o	No reports								
	99n	0	0	0	0	47,879	0	14	47,893	0
	00o	No reports								
	00n	No reports								
Dichloro-1,1,2-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
trifluoroethane	95	No reports								
	98o	No reports								
	98n	No reports								
	99o	No reports								
	99n	No reports								
	00o	No reports								
1 1 D:-1-1	00n	No reports	NTA	NIA	NIA	NIA	NIA	NIA	NT A	NIA
1,1-Dichloro- 1,2,2-trifluoro-	88 95	NA No semesto	NA	NA	NA	NA	NA	NA	NA	NA
ethane	93 980	No reports No reports								
(HCFC-123b)	98n	No reports								
(HCFC-1230)	990	No reports								
	99n	No reports								
	00o	No reports								
	00n	No reports								
1,2-Dichloro-1,1,2-		NA	NA	NA	NA	NA	NA	NA	NA	NA
trifluoroethane	95	No reports			- :- *		- :- *			
(HCFC-123a)	98o	0	0	0	0	0	0	101,123	101,123	0
` /	98n	No reports							, , , , , , , , , , , , , , , , , , ,	
	99o	0	0	0	0	0	0	107,484	107,484	0
	99n	No reports						•		
	00o	0	0	0	0	0	0	108,518	108,518	0
	00n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commune						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
306-83-2	2,2-Dichloro- 1,1,1- trifluoroethane (HCFC-123)	88 95 980 98n 990 99n 000	NR 12 14 3 11 2	NR 155,006 212,316 457 104,470 977 130,610	NR 251 10 0 5 5 0 755	NR 0 0 0 0 0	NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NR 155,257 212,326 457 104,475 977 131,365	NR 0 0 226 0 0	NR 155,257 212,326 683 104,475 977 131,365
62-73-7	*,** Dichlorvos	95 980 98n 990 99n 000 00n	2 7 4 4 1 4 2 5	358 1,050 255 255 0 255 3 260	0 5 5 0 5 1 5	0 0 0 0 0 0	0 0 0 0 0 0	358 1,050 260 260 0 260 4 265	0 505 250 0 9 0 5 0	358 1,555 510 260 9 260 9 265
51338-27-3	* Diclofop methyl	88 95 980 98n 990 99n 000 00n	No reports	NR	NR	NR.	NR	NR	NR	NR
115-32-2	* Dicofol	88 95 980 98n 990 99n 000 00n	8 4 4 No reports 5 1	1,343 750 1,000 1,008 3 1,000	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1,343 750 1,000 1,008 3 1,000	15,786 250 0 0 0 0 0	17,129 1,000 1,000 1,000 1,008 3 1,000
77-73-6	Dicyclopentadiene	88 95 980 98n 990 99n 000 00n	NR 72 86 3 92 5 93 4	NR 340,455 350,062 15 351,535 281 282,249 259	NR 5,464 14,943 0 11,817 1 12,706	NR 0 0 1,081,201 0 973,928 0 813,332	NR 475 597 0 10 0 29	NR 346,394 365,602 1,081,216 363,362 974,210 294,984 813,591	NR 6,888 6,162 0 2,906 256 1,469	NR 353,282 371,764 1,081,216 366,268 974,466 296,453 813,616
1464-53-5	** Diepoxybutane	88 95 980 98n 990 99n 000	No reports No reports 1 No reports 1 No reports 1 No reports	70 0	0	0	0	70 0	0	70 0
		00n	1	0	0	0	0	0	0	0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(contin			Recy	cled	Energy F	Recovery	T	reated	0 11	T I.	N. D. I
Che	mical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
2,2-I	Dichloro-1,1,1-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
triflu	ioroethane	95	253,000	1,304	0	0	18,400	24,465	155,218	452,387	0
(HC	FC-123)	98o	0	0	0	0	41,354	6,066	210,718	258,138	955
		98n	0	0	0	0	32,848	0	683	33,531	0
		99o 99n	0	0	0	0	32,559 0	15,178 0	104,120 977	151,857 977	0
		99II 00o	0	0	0	0	4,330	10,996	129,710	145,036	1,500
		000 00n	0	0	0	0	0	0	358	358	0
*,**Dich	nlorvos	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
,		95	33	0	0	297	10	536	550	1,426	24
		98o	0	0	0	0	11	1,130	508	1,649	0
		98n	0	0	0	0	14,957	0	9	14,966	0
		99o	0	0	0	0	14	1,984	260	2,258	0
		99n	0	97 3	0	228	26,895	2 105	5	26,997	0
		00o 00n	0	0	0	328 0	16 12,908	2,195 237	261 0	2,803 13,145	0
* Dicle	ofop methyl	88	NA NA	NA	NA	NA	NA	NA	NA NA	NA	NA NA
	p,-	95	No reports								
		98o	No reports								
		98n	No reports								
		990	No reports								
		99n	No reports								
		00o 00n	No reports No reports								
* Dico	ofol	88	NA NA	NA	NA	NA	NA	NA	NA	NA	NA
Dico	7101	95	150	0	0	0	0	95	282	527	0
		98o	0	0	0	0	0	895	229	1,124	0
		98n	No reports								
		99o	148	0	0	0	0	1,166	131	1,445	0
		99n	0	0	0	0	28,375	0	3	28,378	0
		00o	0	0	0	0	0	1,335	113	1,448	0
Diev	clopentadiene	00n 88	0 NA	NA	NA	NA	25,898 NA	20 NA	0 NA	25,918 NA	NA
Dicy	reiopentautene	95	514,277	139,273	1,782,272	635,023	471,016	201,368	348,234	4,091,463	306
		98o	457,481	54,182	1,055,862	790,262	535,711	226,565	401,577	3,521,640	7,570
		98n	0	0	0	0	22,604	0	1,081,217	1,103,821	0
		99o	341,739	31,448	4,454,966	684,673	713,953	93,130	371,683	6,691,592	3,506
		99n	0	0	0	333,931	459,410	0	974,025	1,767,366	0
		00o	502,962	270,004	3,656,320	629,690	420,660	178,807	296,841	5,955,284	1,446
** Dien		00n	0	0	0	0	985,294	0	813,467	1,798,761	0
Diep	ooxybutane	88 95	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
		98o	No reports								
		98n	0	0	0	148,733	0	0	70	148,803	0
		990	No reports			- 7		-		.,	
		99n	0	0	0	0	11,634	0	0	11,634	0
		00o	No reports								
		00n	0	0	0	0	14,419	772	0	15,191	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(60300000						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
111-42-2	Diethanolamine	88 95 980 98n 990 99n 000 00n	333 350 332 99 319 98 311	642,418 369,625 436,529 1,256 374,308 1,836 290,339 716	438,213 287,582 63,158 0 35,086 0 150,275	238,317 18,502 24,000 316,517 26,905 327,701 0 258,865	133,456 40,399 113,340 169,345 79,789 65,000 117,286 14,600	1,452,404 716,108 637,027 487,118 516,088 394,537 557,900 274,181	376,037 456,391 208,501 3,653 204,144 33,134 450,497 4,704	1,828,441 1,172,499 845,528 490,771 720,232 427,671 1,008,397 278,885
38727-55-8	* Diethatyl ethyl	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	258,005 NR	NR	NR	NR	276,063 NR
117-81-7	*,** Di(2-ethylhexyl phthalate	88 95 980 980 980 990 990 990 000 000	304 320 306 59 292 67 301 58	1,217,329 504,667 217,555 1,986 229,677 960 240,424 1,172	2,781 921 669 0 2,629 251 592	3,091 0 0 0 0 0 0 0 0 250	20,748 19,705 24,184 0 4,685 27,649 6,188	1,243,949 525,293 242,408 1,986 236,991 28,860 247,204 1,427	3,630,612 3,042,589 1,198,151 1,798 1,017,811 9,247 1,112,315 503	4,874,561 3,567,882 1,440,559 3,784 1,254,802 38,107 1,359,519 1,930
64-67-5	** Diethyl sulfate	88 95 980 98n 990 99n 000 00n	24 31 33 2 29 2 31	10,627 6,978 6,188 0 3,727 10 7,863	0 0 0 0 0 0	0 0 0 0 0 0	250 0 0 0 0 0 0 0	10,877 6,978 6,188 0 3,727 10 7,863	0 250 177 0 34,518 0 621	10,877 7,228 6,365 0 38,245 10 8,484
35367-38-5	* Diflubenzuron	88 95 980 98n 990 99n 000	NR 1 2 No reports 2 No reports 2	NR 0 0	NR 0 0	NR 0 0	NR 0 0	NR 0 0	NR 0 0	NR 0 0
101-90-6	** Diglycidyl resorcinol ether	000 00n 88 95 980 98n 990 99n 000	No reports NR No reports 2 1 2 1 3	NR 20 0 20 0 10	NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NR 0 0 0 0 0 0 0 0 0	NR 20 0 20 0 10	NR 0 0 0 0 0 0 0 0 0	NR 20 0 20 0 10
		99o 99n	1	20 0	0	0	0	20 0	0	

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(Constitution)		Recy	cled	Energy 1	Recovery	Т	reated			
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
Diethanolamine	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	23,518	160,987	102,766	732,863	2,828,593	1,617,435	1,137,284	6,603,446	25,342
	980 98n	3 56 215	289,382 0	280,874 0	119,918 755,972	2,935,508 21,411	2,570,010 4,286	2,592,385 493,747	8,788,080	80
	9811 990	56,215 0	72,617	509,443	354,310	2,798,392	1,477,487	1,094,260	1,331,631 6,306,509	55,474
	99n	0	72,017	0	34,183	32,523	14,749	427,166	508,626	0
	00o	36,064	115,049	602,968	130,432	11,758,348	1,350,711	2,079,072	16,072,644	5,077
	00n	0	0	0	3,766	60,058	6,258	279,731	349,813	0
 Diethatyl ethyl 	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	No reports								
	980	No reports								
	98n 99o	No reports No reports								
	99n	No reports								
	00o	No reports								
	00n	No reports								
*,**Di(2-ethylhexyl)	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
phthalate	95	2,644,796	4,057,967	116,013	258,725	557,557	357,115	3,678,363	11,670,536	341
	98o	4,997,256	1,879,610	464,843	222,093	403,536	272,281	1,174,668	9,414,287	561
	98n	0	2 152 512	0	1,452,492	195 510	2,318	1,614	1,456,424 9,101,924	7.024
	990 99n	3,861,430 0	3,153,512 0	344,691 0	193,711 9,101	185,510 179,924	198,431 1,961	1,164,639 33,064	9,101,924	7,024 3,117
	000	3,794,801	3,249,455	481,682	225,642	4,099,569	148,420	1,352,304	13,351,873	1,458
	00n	0	0	0	9,459	279,363	1,899	776	291,497	0
** Diethyl sulfate	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	6,400,000	0	415	3,370	4,702	7,131	6,415,618	0
	980	0	0	0	6,887,586	4,488	2,460	6,508	6,901,042	5
	98n	0	0	0	50 7.650 130	2 704	50	1 42 ((7	102	0
	990 99n	0	0	0	7,659,130 1,780	3,704 1	459 0	42,667 1	7,705,960 1,782	0
	00o	0	0	0	5,843,600	1,328	4,879	10,519	5,860,326	0
	00n	0	0	0	200	0	0	201	401	0
* Diflubenzuron	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	0	0	0	0
	98o	0	0	0	0	0	0	0	0	0
	98n	No reports 0	0		0		0	0		0
	990 99n	~	0	0	U	0	0	U	0	0
	000	No reports 0	0	0	0	0	0	0	0	0
	00n	No reports	Ü		Ü	Ĭ	Ü			
** Diglycidyl	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
resorcinol	95	No reports								
ether	980	0	0	0	300	0	0	6	306	0
	98n	0	0	0	0	0	0	0	0	0
	990	0	0	0	1,100	0	0	6	1,106	0
	99n 00o	0	0	0	0	0	0	0 1	0	0
	000 00n	0	0	0	0	0	0	0	0	0
	0011	U	U	U	U	0	U	U	0	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(comme							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
94-58-6	**	Dihydrosafrole	88 95 980 98n 990 99n 000	NR 2 4 1 3 3 3 3	NR 255 12,018 0 268 5	NR 0 0 0 0 0	NR 0 0 0 0 0	NR 0 0 0 0 0	NR 255 12,018 0 268 5	NR 0 0 0 0 167 0	NR 255 12,018 0 268 172 260
		Diisocyanates	95 980 98n 990 99n 000 00n	3 NR 1,107 1,393 17 1,406 20 1,400 18	0 NR 453,411 447,589 750 278,853 1,565 365,357 348	0 NR 1,370 28 0 21 1 16 5	0 NR 0 0 0 0	0 NR 31,977 158,920 900,000 198,911 514,005 227,697 641,159	0 NR 486,758 606,537 900,750 477,785 515,571 593,070 641,512	0 NR 599,218 1,061,689 2,760 1,002,403 39,567 1,889,129 719	0 NR 1,085,976 1,668,226 903,510 1,480,188 555,138 2,482,199 642,231
55290-64-7	*	Dimethipin	88 95 980 98n 990 99n 000 00n	NR 1 1 No reports 1 No reports 2 No reports	NR 0 0 0	NR 0 0 0	NR 0 0 0	NR 0 0 0	NR 0 0 0	NR 0 0 0	NR 0 0 0 250
60-51-5	*	Dimethoate	88 95 980 98n 990 99n 000 00n	NR 4 6 2 5 4 5 4	NR 270 42 15 27 24 22	NR 5 5 0 0 5 0 5 250	NR 0 0 0 0 0	NR 250 19,975 0 0 0	NR 525 20,022 15 32 24 27 264	NR 1,500 0 69 0 177 0	NR 2,025 20,022 84 32 201 27 264
119-90-4	**	3,3'-Dimethoxy- benzidine	88 95 980 98n 990 99n 000 00n	No reports 3 No reports 1 No reports 3 No reports 3	0 0 7 0	0 0 1	0 0 0	0 0 0	0 0 8	0 0 162	0 0 170
20325-40-0	**	3,3'-Dimethoxy- benzidine dihydrochloride	88 95 980 98n 990 99n 000 00n	NR 5 7 No reports 8 No reports 7 No reports	NR 10 0 12	NR 0 0 220	NR 0 0 0	NR 0 0 0	NR 10 0 232	NR 0 0 0	NR 10 0 232

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

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^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	led	Energy I	Recovery	T	reated	Quantity	Total	Non-Produc-
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Released On-and Off-site Pounds	Production- related Waste Managed Pounds	tion-related Waste Managed Pounds
** Dihydrosafrole	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	10	999	0	1,009	0
	98o	0	0	0	0	0	10	12,028	12,038	0
	98n 99o	0 0	0 0	0	0	0	0 10	0 78	0 88	
	99n	0	0	0	0	189,324	0	171	189,495	
	00o	0	0	0	0	0	5	83	88	0
	00n	0	0	0	0	106,546	787	0	107,333	C
Diisocyanates	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	816,798	343,867	143,840	343,308	710,457	1,182,587	1,039,906	4,580,763	4,131
	98o	1,352,830	450,903	573,125	608,093	1,919,545	1,562,728	1,281,385	7,748,609	9,892
	98n	0	0	0	1,352,236	1,247,948	782	903,028	3,503,994	(
	99o	112,052	559,488	125,596	549,383	2,046,547	1,684,680	1,443,134	6,520,880	20,376
	99n	0	0	0	0	4,229,041	970	557,229	4,787,240	7 200
	00o 00n	145,962 0	357,797 0	195,025 0	877,627	704,373	1,469,395	2,410,363 641,984	6,160,542	7,302
* Dimethipin	88	NA	NA	NA	260 NA	1,783,693 NA	9,359 NA	041,984 NA	2,435,296 NA	NA
Dimempin	95	0	0	0	0	0	0	0	0	(
	98o	0	0	0	0	0	0	0	0	
	98n	No reports		_			_			
	99o	0	0	0	0	0	0	0	0	C
	99n	No reports								
	00o	0	0	0	0	0	2,596	229	2,825	C
	00n	No reports								
k Dimethoate	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	200	0	0	0	0	242	1,900	2,342	(
	980 98n	433 0	0 0	0	0	0 63,138	4,105 0	27,957 84	32,495	(
	9811 990	0	0	0	0	05,138	8,691	4,865	63,222 13,556	(
	990 99n	0	0	0	0	210,152	0,091	202	210,354	(
	00o	0	0	0	0	0	4,731	5,212	9,943	
	00n	0	0	0	10,000	173,804	10,064	34	193,902	C
** 3,3'-Dimethoxy-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzidine	95	0	0	0	0	0	0	0	0	C
	98o	No reports								
	98n	0	0	0	0	0	0	0	0	C
	99o	No reports			^	450 544			450 655	
	99n	0	0	0	0	178,511	0	164	178,675	C
	00o 00n	No reports 0	0	0	0	103,413	781	0	104,194	
** 3,3'-Dimethoxy-	88	NA	NA	NA	NA	103,413 NA	NA	0 NA	104,194 NA	0 NA
benzidine	95	0	0	0	0	50	1	10	61	0
dihydrochloride	98o	0	0	0	0	15	0	0	15	0
,	98n	No reports	Ĭ	-	,]
	99o	0	0	0	0	1,115	0	232	1,347	C
	99n	No reports								
	00o	0	0	0	0	153	0	52	205	0
	00n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

(continued)						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
111984-09-9 **	3,3'-Dimethoxy- benzidine hydrochloride	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
124-40-3	Dimethylamine	88 95 980 98n 990 99n 000 00n	NR 72 76 5 74 7 78 8	NR 456,761 446,085 892 416,500 567 387,318 2,800	NR 26,490 35,629 0 30,068 1 22,005	NR 60,250 26,250 0 24,250 0 16,200	NR 3,140 3,788 0 2,735 0 3,440	NR 546,641 511,752 892 473,553 568 428,963 2,805	NR 38,146 119 8 18 422 2,571 1,010	NR 584,787 511,871 900 473,571 990 431,534 3,815
2300-66-5 *	Dimethylamine dicamba	88 95 980 98n 990 99n 000 00n	NR 3 3 No reports 5 No reports 7 No reports	NR 505 250 250	NR 0 0 0	NR 0 0 0 250	NR 0 0 0	NR 505 250 250	NR 154 0 0	NR 659 250 250
60-11-7 **	4-Dimethylamino- azobenzene		No reports No reports No reports No reports No reports No reports No reports	0	0	0	0	0	0	0
121-69-7	N,N-Dimethyl- aniline	88 95 980 98n 990 99n 000 00n	20 21 21 1 21 3 17 3	98,905 36,932 32,294 0 27,624 5 20,087	19,967 388 850 0 349 0 719	0 0 0 0 0 0 0	250 0 0 0 0 0 0 0	119,122 37,320 33,144 0 27,973 5 20,806	772 465 7,523 0 2,577 167 142	119,894 37,785 40,667 0 30,550 172 20,948
119-93-7 **	3,3'-Dimethyl- benzidine	88 95 980 98n	No reports No reports No reports 2	10	0	0	0	10	0	10
		990 99n 000	No reports No reports	17	1	0	0	18	171	189
		00n	4	10	0	0	0	10	5	15

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(mimueu)		Recy	cled	Energy I	Recovery	Т	reated	0	T-4-1	N D d
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
**	3,3'-Dimethoxy- benzidine hydrochloride	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
	Dimethylamine	88 95 980 98n 990 99n 000 00n	NA 1,095,202 574,603 0 716,804 0 413,215	NA 0 0 0 0 0 0 294	NA 21,170 28,500 0 8,510 0 10,330 1,659	NA 1,800 1,600 149,823 6,127 0 3,100 733	NA 2,157,170 3,739,186 231,726 2,885,224 432,882 4,439,603 452,084	NA 224,513 450,423 50 537,560 750 823,756 332	NA 582,484 510,977 1,199 476,506 1,228 431,762 2,893	NA 4,082,339 5,305,289 382,798 4,630,731 434,860 6,122,060 457,701	NA 0 65 0 77 0 0
*	Dimethylamine dicamba	88 95 980 98n 990 99n 000 00n	NA 7,981 0 No reports 0 No reports 0 No reports	NA 0 0 0	NA 0 0 0	NA 0 0 0	NA 0 0 0	NA 0 0 0	NA 803 88 32 500	NA 8,784 88 32 500	NA 0 0 0
**	4-Dimethylamino- azobenzene	88 95 980 98n 990 99n 000	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
	N,N-Dimethyl- aniline	00n 88 95 980 98n 990 99n 000 00n	0 NA 50,535 46,000 0 52,678 0 43,000	0 NA 0 21,000 0 19,000 0 0	0 NA 0 0 0 33,536 0 0	0 NA 745,242 807,221 0 703,600 0 52,696	13,740 NA 12,768 19,620 0 23,751 148,990 28,226 101,873	781 NA 201,372 166,522 0 167,707 0 47,290 43	0 NA 107,732 31,090 0 27,833 172 21,035	14,521 NA 1,117,649 1,091,453 0 1,028,105 149,162 192,247 101,917	0 NA 0 0 0 2 0 0
**	3,3'-Dimethyl- benzidine	88 95 980 98n	NA No reports No reports 0	NA 0	NA 0	NA 505	NA 48,005	NA 0	NA 5	NA 48,515	NA 0
		990 99n 000 00n	No reports 0 No reports 0	0	0	0 1,288	207,475 148,615	146 0	173 4	207,794 149,907	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

(000000							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
612-82-8	**	3,3'-Dimethyl- benzidine dihydrochloride	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
41766-75-0	**	3,3'-Dimethyl- benzidine dihydrofluoride	88 95 980 98n 990 99n 000	NR No reports	NR	NR	NR	NR	NR	NR	NR
79-44-7	**	Dimethylcarbamyl chloride	88 95 980 98n 990 99n 000 00n	No reports No reports 1 1 1 3 1 3 1	98 0 90 9 102	0 0 0 1 0	0 0 0 0 0	0 0 0 0 0	98 0 90 10 102	0 0 0 173 0	98 0 90 183 102
2524-03-0		Dimethyl chloro- thiophosphate	88 95 980 98n 990 99n	NR 3 3 No reports No reports	NR 10 77	NR 0 0	NR 51,677 4,300	NR 20 0	NR 51,707 4,377	NR 0 0	NR 51,707 4,377
			00o 00n	No reports No reports	2		U	v	3	7	,
68-12-2	*	N,N-Dimethyl- formamide	88 95 980 98n 990 99n 000 00n	NR 143 170 45 172 42 171 46	NR 2,352,993 987,634 2,267 769,633 8,887 725,943 4,387	NR 73,106 43,057 0 28,303 1 20,506	NR 1,099,000 272,325 11,857 127,125 0 82,405 27,579	NR 1,710 14,976 0 5 0 1,000	NR 3,526,809 1,317,992 14,124 925,066 8,888 829,854 31,966	NR 286,326 662,758 720 732,291 84,778 1,742,774 7,989	NR 3,813,135 1,980,750 14,844 1,657,357 93,666 2,572,628 39,955
57-14-7	*,**	¹ 1,1-Dimethyl hydrazine	88 95 980 98n 990 99n 000 00n	4 4 4 1 4 3 3	4,323 299 496 0 408 25 365 53	10 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	4,333 299 496 0 408 26 365 53	8,855 5 0 0 7 557 0 72	13,188 304 496 0 415 583 365 125

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

Commission		Recyc	eled	Energy	Recovery	Т	reated			
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
** 3,3'-Dimethyl- benzidine dihydrochloride	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
** 3,3'-Dimethyl- benzidine dihydrofluoride	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
** Dimethylcarbamyl chloride	88 95	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
	98o	0	0	0	0	27,113	0	98	27,211	0
	98n	0	0	0	0	0	0	0	0	0
	99o	0	0	0	0	42,084	0	90	42,174	0
	99n	0	0	0	0	205,715	0	181	205,896	0
	00o	0	0	0	0	38,596	0	102	38,698	0
	00n	0	0	0	0	107,182	789	0	107,971	0
Dimethyl chloro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
thiophosphate	95 98o	0	0	0	0	0 1,960	0	51,727 4,331	51,727 6,291	0
	98n	No reports	U	0	U	1,900	U	4,331	0,291	0
	990	No reports								
	99n	0	0	0	0	16,000	0	1	16,001	0
	00o	No reports				ĺ			,	
	00n	No reports								
* N,N-Dimethyl-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
formamide	95	4,738,418	389,337	8,565,430	3,644,354	14,738,051	3,084,481	3,689,071	38,849,142	245
	98o	9,700,653	260,139	9,778,803	7,724,127	13,669,610	5,247,912	1,587,505	47,968,749	1,449
	98n	78,590	91 190,989	0	577,285	345,236	15,918	19,179	1,036,299 48,694,685	2.065
	990 99n	8,526,815 337,796	190,989	11,042,710 0	9,649,715 3,143,031	12,205,473 691,825	5,406,804 3,243,870	1,672,179 80,676	7,497,638	2,065
	00o	12,933,112	247,006	13,836,066	14,755,068	13,663,417	10,831,191	2,154,755	68,420,615	191
	00n	1,198,928	813	0	2,699,229	658,926	1,151,880	145,883	5,855,659	5
*,**1,1-Dimethyl	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
hydrazine	95	0	57	0	0	3,639	10	302	4,008	0
	98o	0	0	0	300	1,218	3,913	493	5,924	0
	98n	0	0	0	0	0	0	0	0	0
	99o	0	0	0	320	670	7,687	412	9,089	0
	99n	0	0	0	0	549,099	220	578	549,677	0
	00o 00n	0	0	0	0	1,361 363,144	220 781	368 124	1,949 364,049	0
	UUII	U	U	U	0	303,144	/01	124	304,049	<u> </u>

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(00111111							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
105-67-9	*	2,4-Dimethyl- phenol	88 95 980 98n 990	13 19 25 3 27	11,588 52,797 36,023 2 32,402	484 33 56 0 122	24,703 79,000 187,076 0 156,587	399 5 0 0	37,174 131,835 223,155 2 189,111	1,500 17 1,177 0 2,202	38,674 131,852 224,332 2 191,313
			99n 00o 00n	4 30 4	37 30,929 0	1 414 0	5 201,020 0	0 0 0	43 232,363 0	14 1,533 0	57 233,896 0
131-11-3	*	Dimethyl phthalate	88 95 980 98n 990	58 90 102 24 97	535,056 375,121 263,791 259 432,212	4,335 275 627 0 805	390 1,000 2,950 0 1,900	504 5 827 0 7,356	540,285 376,401 268,195 259 442,273	93,358 2,524 37,011 2,077 32,484	633,643 378,925 305,206 2,336 474,757
77-78-1	**	Dimethyl sulfate	99n 00o 00n 88	19 104 23 33	78 289,704 66 10,806	1 852 0 610	1,900 1,900 5	7,658 8,587 24,498	7,737 301,043 24,569 11,466	6,384 33,912 1,003	14,121 334,955 25,572 11,466
		,	95 980 98n 990 99n 000	40 35 1 31 3 3	6,712 10,831 0 9,828 45 7,216	1 46 0 3 1 22	0 0 0 0 0 0	0 0 0 0 0 0 40	6,713 10,877 0 9,831 46 7,278	0 1,010 0 0 187 0	6,713 11,887 0 9,831 233 7,278
99-65-0		m-Dinitrobenzene	95 980 98n 990 99n	NR 3 2 No reports 2 2	35 NR 547 383 382	NR 849 517 442 0	NR 0 0	0 NR 1,066 516 49 0	35 NR 2,462 1,416 873 3	NR 0 0 0	35 NR 2,462 1,416 873 103
500.00			00o 00n	2 No reports	355	466	0	134	955	0	955
528-29-0		o-Dinitrobenzene	88 95 980 98n	NR 3 2 No reports	NR 65 49	NR 109 66	NR 0 0	NR 136 66	NR 310 181	NR 0 0	NR 310 181
			990 99n 000 00n	No reports No reports	49 45	63	0	0	112	0	112
100-25-4		p-Dinitrobenzene	88 95 980 98n	NR 1 1 No reports	NR 16 13	NR 30 18	NR 0 0	NR 37 18	NR 83 49	NR 0 0	NR 83 49
			990 99n 000 00n	No reports No reports	14 12	17 81	0	0	93	0	93

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commueu)			Recyc	cled	Energy R	Recovery	Tı	reated	0 "	T. 4.1	N D I
Chemical	Ye	ear	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
* 2,4-Dimeth	hylphenol 88	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95		37,140	30,368	1,573,273	50,362	397,965	75,967	131,351	2,296,426	24
	98		6,240	93,314	1,491,389	42,851	530,961	29,711	224,073	2,418,539	193
	98 99		0 19,796	0 65,907	0	20.205	18,158	0	190 616	18,160 3,189,714	0 183
	99		19,796	05,907	2,268,009 0	20,395	602,750 140,677	23,241	189,616 45	140,722	183
	00		8,208	74,248	1,935,017	17,349	725,960	28,862	236,413	3,026,057	29
	00		0	0	0	0	18,113	922	0	19,035	0
* Dimethyl p			NA	NA	NA	NA	NA	NA	NA	NA	NA
	95		4,288	800	253,605	76,579	369,897	221,729	378,344	1,305,242	0
	98		1,300	11	401,458	89,612	1,027,440	23,677	322,344	1,865,842	264
	98		0	0	0	152,247	104,268	1,810	267	258,592	0
	99		22,721	274	1,514,650	187,467	1,254,329	18,822	375,832	3,374,095	0
	99		0 22,397	0 634	0 952,968	2,798 115,945	456,783 880,982	2,066 90,503	11,879 352,477	473,526 2,415,906	0
	00		0	0	0	3,568	431,588	2,891	24,573	462,620	0
** Dimethyl s			NA	NA	NA	NA NA	NA	NA NA	NA NA	NA	NA
•	95		0	171,230	1	0	402,841	3	5,815	579,890	0
	98		0	260,865	32,693	0	221,659	861	10,613	526,691	0
	98		0	0	0	0	0	0	0	0	0
	99		0	131,338	0	0	95,710	9,400	9,722	246,170	0
	99		0	0 62,518	0 0	0	234,930 60,787	212.012	230 7,226	235,160	0 40
	00		0	02,318	0	0	279,884	212,012 781	35	342,543 280,700	0
m-Dinitrob			NA	NA	NA	NA	NA	NA	NA	NA	NA
III Dillini	95		0	0	0	0	848,213	0	2,462	850,675	0
	98	Во	0	0	0	0	516,692	0	1,416	518,108	0
	98	3n	No reports								
	99		0	0	0	0	490,539	0	873	491,412	0
	99		0	0	0	0	124,420	0	102	124,522	0
	00		0 No reports	0	0	0	465,539	473	955	466,967	0
o-Dinitrob			No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
o Dimuoo	95		0	0	0	0	445,133	0	310	445,443	0
	98		0	0	0	0	66,089	0	181	66,270	0
	98	3n	No reports								
	99		0	0	0	0	62,743	0	112	62,855	0
	99		No reports								
	00		0	0	0	0	59,324	61	105	59,490	0
p-Dinitrob	enzene 88		No reports NA	NIA	NΙΛ	NA	NA	NA	NIA	NA	NIA
p-Dillingop	enzene 88		0	NA 0	NA 0	NA 0	29,589	NA 0	NA 83	29,672	NA 0
	98		0	0	0	0	18,024	0	49	18,073	0
	98		No reports	•	_	,	-,	,			
	99		0	0	0	0	17,112	0	31	17,143	0
	99		No reports								
	00		0	0	0	0	16,179	17	93	16,289	0
	00)n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

	•						On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
88-85-7	*	Dinitrobutyl phenol	88 95 980 98n 990	NR 5 5 2 5	NR 879 1,051 6 1,005	NR 2 0 0	NR 0 0 0 0	NR 0 0 0 50	NR 881 1,051 6 1,055	NR 0 6,843 45 16,848	NR 881 7,894 51 17,903
524 52 1	*	4 (Dinitra	99n 00o 00n	1 6 2	0 1,207 1	0 0 0	0 0 0	0 0 0	0 1,207 1	0 8,850 0	0 10,057 1
534-52-1	*	4,6-Dinitro-o- cresol	88 95 980 98n 990	10 5 7 1 7	274 130 104 130 102	266 0 0 0	0 4,649 0 0	2 0 1,101 9,700	542 4,779 1,205 9,830 102	46,648 7,220 123,944 1,388 137,066	47,190 11,999 125,149 11,218 137,168
51-28-5	*	2,4-Dinitrophenol	99n 00o 00n 88	3 9 2	102 157 125 309 20,825	0 0 5 98,692	0 0 0 250 86,200	43,655 0 14,499 257	43,812 125 15,063 205,974	23,599 114,579 527 110,285	67,411 114,704 15,590 316,259
31-20-3		2,4-Dimirophenoi	95 980 98n 990	4 6 2 6	112 183 341 7	2,000 23,617 0 23,287	0 0 0 0	0 0 11,000 0	2,112 23,800 11,341 23,294	0 0 1,632 0	2,112 23,800 12,973 23,294
121-14-2	**	2,4-Dinitrotoluene	99n 00o 00n 88	3 6 3 13	190 4 724 93,257	0 23,287 5 12,055	0 0 250 106,400	46,938 0 31,156 14,961	47,128 23,291 32,135 226,673	26,063 51 1,274 124,281	73,191 23,342 33,409 350,954
121-14-2		2,4-Dillidoloidelle	95 980 98n 990 99n 000	4 5 8 7 8 6	1,874 1,829 166 1,858 429 759	231 187 0 168 1 172	0 0 0 0 0	0 0 10,000 0 43,420	2,105 2,016 10,166 2,026 43,850 931	94 0 1,408 25,489 23,806 17,811	2,199 2,016 11,574 27,515 67,656 18,742
606-20-2	**	2,6-Dinitrotoluene	00n 88 95 980 98n 990 99n 000	10 7 1 1 2 3 4 4	1,172 87,597 469 467 5 593 67 502	5 957 126 62 0 42 1 27	250 27,000 0 0 0 0	27,609 0 0 0 0 0 0 15,287	29,036 115,554 595 529 5 635 15,355 529	1,780 30,882 0 0 0 8,663 8,246	30,816 146,436 595 529 5 9,298 23,601
25321-14-6		Dinitrotoluene (mixed isomers)	000 00n 88 95 980 98n 990 99n	NR 6 7 4 14 2	6 NR 14,811 13,439 0 9,655	5 NR 284 1 0 0	250 NR 17,000 36,000 5 1,100	0 NR 0 0 0 0	261 NR 32,095 49,440 5 10,755	2,025 0 NR 6 1,402 1 316	2,554 261 NR 32,101 50,842 6 11,071
			00o 00n	17 2	10,423 0	4 0	3,300 0	696 0	14,423 0	22,093 0	36,516 0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

			Recyc	eled	Energy R	ecovery	T	reated			
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
*	Dinitrobutyl	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	phenol	95	0	0	263,629	0	34,226	110	881	298,846	0
		98o	0	0	310,000	0	12,003	0	7,891	329,894	0
		98n	0	0	0	0	47,850	1,000	51	47,901	0
		99o 99n	0	0	323,000 0	0	15,011 54,836	1,000 0	17,898 0	356,909 54,836	0
		00o	0	0	309,000	0	26,202	75	10,203	345,480	0
		000 00n	0	0	0	0	73,342	9	10,203	73,352	0
*	4,6-Dinitro-o-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	cresol	95	0	0	844,907	410	18,000	13,950	7,365	884,632	0
		98o	0	0	1,466,262	10,696	31,000	6,029	123,791	1,637,778	0
		98n	0	0	0	0	360	46	11,000	11,406	0
		99o	0	0	1,664,037	165,913	29,000	19,081	124,717	2,002,748	0
		99n	0	0	0	0	68,669	0	67,411	136,080	0
		00o	0	0	1,757,338	58,751	34,000	64,353	114,709	2,029,151	0
*	2,4-Dinitrophenol	00n 88	0 NA	0 NA	0 NA	0 NA	41,256 NA	0 NA	15,476 NA	56,732 NA	0 NA
	2,4-Dilliuopiiciioi	95	0	0	556,712	9	1,160,000	NA 220	2,103	1,719,044	0
		98o	0	0	562,709	29,118	1,770,236	0	23,800	2,385,863	0
		98n	0	0	0	0	246,877	53	13,191	260,121	0
		99o	0	0	301,737	317,192	1,642,419	72	23,290	2,284,710	0
		99n	0	0	0	0	240,644	0	73,191	313,835	0
		00o	0	0	290,282	58,571	1,094,790	183,793	23,342	1,650,778	0
		00n	0	0	0	0	74,084	0	33,311	107,395	0
**	2,4-Dinitrotoluene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	42,345	9	27,115	1,381	2,200	73,050	0
		98o	0	0	41,135 0	9,706	53,539	1,100	2,059	107,539	0
		98n 99o	0	0	32,234	0 952	107,067 40,983	685 21,382	12,031 22,933	119,783 118,484	0
		990 99n	0	0	32,234	0	1,030,736	21,362	67,249	1,097,985	0
		00o	0	0	34,248	58	949,197	824	24,289	1,008,616	0
		00n	0	0	0	0	2,186,966	802	30,188	2,217,956	0
**	2,6-Dinitrotoluene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	6,160	1	9,180	118	595	16,054	0
		98o	0	0	0	0	44,509	118	529	45,156	0
		98n	0	0	0	0	3,755	37	1	3,793	0
		99o	0	0	3,451	0	33,205	5,200	825	42,681	0
		99n	0	0	0	0	94,476	0	23,592	118,068	0
		00o 00n	0	0	44,072	76 0	303,676 25,241	110 799	7,854 37	355,788 26,077	0
	Dinitrotoluene	88	NA	NA	NA	NA	25,241 NA	NA	NA	20,077 NA	NA
	(mixed isomers)	95	0	0	0	9,100	181,321	882,089	32,321	1,104,831	2,500
		98o	0	202,569	0	6	114,686	587,330	50,175	954,766	8,700
		98n	0	0	0	6	86,495	0	4	86,505	0
		99o	0	0	0	0	714,793	806,158	11,486	1,532,437	3,200
		99n	0	0	0	0	143,316	0	3	143,319	0
		00o	0	0	0	0	906,305	1,515,513	35,958	2,457,776	0
		00n	0	0	0	0	82,160	0	0	82,160	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
39300-45-3	*	Dinocap	88 95 980 98n 990 99n 000 00n	NR 1 1 No reports No reports No reports No reports No reports No reports	NR 0 255	NR 0 0	NR 0 0	NR 0 0	NR 0 255	NR 0 0	NR 0 255
123-91-1	**	1,4-Dioxane	88 95 980 98n 990 99n 000 00n	73 54 47 7 56 8 56	612,633 223,144 111,761 836 164,563 320 103,530 366	203,320 216,689 144,534 0 168,127 1 163,776	0 0 0 250 0 250 0	11,702 5,736 4,405 10,000 4,903 48,069 2,711 15,420	827,655 445,569 260,700 11,086 337,593 48,640 270,017 15,786	10,954 352,998 476,533 1,608 639,854 26,267 356,770 627	838,609 798,567 737,233 12,694 977,447 74,907 626,787 16,413
	**,	Dioxin and dioxin-like compounds	88 95 980 98n 990 99n 000 <i>000</i>	NR NR NR NR NR NR 779 495	NR NR NR NR NR NR 8.678 3,935.584 2.827	NR NR NR NR NR NR 4.577 2,075.610	NR NR NR NR NR NR 0.893 405.092 0.000	NR NR NR NR NR NR NR 36,750.942 3.233	13,780 NR NR NR NR NR NR 43,167.227 6.060	NR NR NR NR NR NR 118.423	NR NR NR NR NR NR NR 213.606 96,873.599 6.484
957-51-7	*	In grams Diphenamid	00n 88 95 980 98n 990 99n 000 00n	A95 NR No reports	1,282.191 NR	0.024 NR	0.100 NR	1,466.082 NR	2,748.397 NR	192.093 NR	2,940.490 NR
122-39-4	*	Diphenylamine	88 95 980 98n 990 99n 000 00n	NR 23 26 4 32 5 27 5	NR 50,706 61,958 20 51,059 13 28,270	NR 200 25 0 32 0 33 0	NR 9,060 9,665 0 5,772 0 7,981	NR 65 250 0 250 10,130 250 13,000	NR 60,031 71,898 20 57,113 10,143 36,534 13,015	NR 34,727 43,509 90 48,556 419 28,035 250	NR 94,758 115,407 110 105,669 10,562 64,569 13,265

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information). For dioxin and dioxin-like compounds, applies only to 2,3,7,8-Tetrachlorodibenzo-p-dioxin.

^{***} PBT chemical added to list for 2000 reporting year. See Chapter 3 for more information.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	,		Recy	cled	Energy l	Recovery	Т	`reated	0 "	T. 4.1	N D I
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
*	Dinocap	88 95 980 98n 990 99n 000 00n	NA 0 0 No reports No reports No reports No reports No reports	NA 0 0	NA 0 0	NA 0 0	NA 0 0	NA 0 109	NA 0 8	NA 0 117	NA 0 0
**	1,4-Dioxane	88 95 980 98n 990 99n 000 00n	NA 74,293 1,120,000 0 1,519,000 30,078 1,842,597	NA 11,324 4,101 0 13,401 0 7,601	NA 1,975,960 595,806 0 1,811,182 0 3,485,166 2,740	NA 1,196,352 672,324 454,236 1,286,086 225,348 1,505,163 197,597	NA 1,019,104 1,800,876 26,614 1,995,984 372,025 1,670,476 162,049	NA 305,315 418,527 3,549 364,982 8,283 387,464 196	NA 790,118 734,717 12,814 983,878 74,549 625,994 16,415	NA 5,372,466 5,346,351 497,213 7,974,513 710,283 9,524,461 378,997	NA 229 18 0 11 0 4
**;		88 95 980 98n 990 99n 000	NA NR NR NR NR NR 9,809	NA NR NR NR NR NR	NA NR NR NR NR NR	NA NR NR NR NR NR NR 4.398	NA NR NR NR NR NR 525.761	NA NR NR NR NR NR 71.155	NA NR NR NR NR NR 226.592	NA NR NR NR NR NR 837.768	NA NR NR NR NR NR 59.140
	In grams	00o 00n	4,448.559 0.000	4.433 0.002	19.698 0.000	1,994.612 0.000	238,440.171 24.416	32,269.679 0.004	102,762.885 6.498	379,940.037 30.921	26,821.006 0.000
*	In grams Diphenamid	95 980 98n 990 99n 000 00n	0.000 NA No reports No reports	0.960 NA	0.000 NA	0.000 NA	11,073.184 NA	1.850 NA	2,947.049 NA	14,023.044 NA	0.000 NA
*	Diphenylamine	88 95 980 98n 990 99n 000 00n	NA 976,755 199,400 0 155,450 0 9,000	NA 11,600 35,131 0 879 0 595	NA 1,100,115 4,769,102 0 5,216,863 0 4,826,849	NA 264,471 823,607 0 753,487 46,894 1,021,087	NA 46,428 21,971 224,324 192,696 205,207 65,495 179,335	NA 722,296 77,905 0 84,462 0 81,408 198	NA 95,833 86,252 104 86,365 10,386 58,397 13,191	NA 3,217,498 6,013,368 224,428 6,490,202 262,487 6,062,831 192,724	NA 0 5,700 0 1 0 0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information). For dioxin and dioxin-like compounds, applies only to 2,3,7,8-Tetrachlorodibenzo-p-dioxin.

^{***} PBT chemical added to list for 2000 reporting year. See Chapter 3 for more information.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

(000000							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
122-66-7	**	1,2-Diphenyl- hydrazine	88 95 980 98n	No reports No reports No reports 2	5	0	0	0	5	0	5
			990 99n 000	1 1 No reports	5 2	0	0	0	5 3	0 4	5 7
2164.07.0	st.	D'	00n	3	0	0	0	0	0	0	0
2164-07-0	*	Dipotassium	88	NR	NR	NR	NR	NR	NR	NR	NR
		endothall	95 980 98n	1 2 No reports	0 20	0	0	0	0 20	0	0 20
			990 99n	1 No reports	10	0	0	0	10	0	10
			00o 00n	2 No reports	20	0	0	0	20	0	20
136-45-8	*	Dipropyl isocin- chomeronate	88 95	NR No reports	NR	NR	NR	NR	NR	NR	NR
			980 98n	No reports	0	0	0	0	0	0	0
			990 99n	No reports	0	0	0	0	0	0	0
			00o 00n	No reports	0	0	0	0	0	0	0
138-93-2	*	Disodium cyano-	88	NR	NR	NR	NR	NR	NR	NR	NR
		dithioimido- carbonate	95 980 98n	3 5 No reports	0	0	0	0	0	0	0
			990 99n	2 No reports	0	0	0	0	0	0	0
			00o 00n	4 No reports	0	0	0	0	0	0	0
94-11-1	*,**	2,4-D isopropyl ester	88 95 980	NR No reports No reports	NR	NR	NR	NR	NR	NR	NR
			98n 99o 99n	No reports No reports No reports							
			00o 00n	No reports No reports							
541-53-7	*	2,4-Dithiobiuret	88 95 980 98n	NR No reports No reports No reports	NR	NR	NR	NR	NR	NR	NR
			990 99n 000	No reports 2 No reports	11	0	0	0	11	333	344
			000 00n	1	0	0	0	0	0	0	0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	led	Energy R	ecovery	Tr	eated	Quantity	Total	Non Droduo
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
** 1,2-Diphenyl-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
hydrazine	95	No reports								
	98o	No reports	0	0	0	5.405	5.5	1	5 5 4 1	
	98n 99o	0	0 0	0	0	5,485 5,267	55 53	1 1	5,541 5,321	0
	99n	0	0	0	0	32,000	0	1	32,001	0
	00o	No reports	· ·	V	Ŭ	32,000	Ŭ	1	32,001	ľ
	00n	0	0	0	0	12,678	869	0	13,547	0
* Dipotassium	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
endothall	95	0	0	0	0	0	0	0	0	0
	98o	0	0	0	0	1,900	5,400	201	7,501	0
	98n	No reports					2 400	400	2 000	
	990	0	0	0	0	0	3,400	400	3,800	0
	99n 00o	No reports 0	0	0	0	0	103,424	200	103,624	0
	000 00n	No reports	· ·	Ü	· ·	O	103,424	200	103,024	l °
* Dipropyl isocin-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
chomeronate	95	No reports								
	98o	0	0	0	0	0	0	0	0	0
	98n	No reports								
	990	0	0	0	0	0	0	0	0	0
	99n	No reports		^		^	0			
	00o 00n	0 No reports	0	0	0	0	0	0	0	0
* Disodium cyano-	88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
dithioimido-	95	0	0	0	0	0	0	0	0	0
carbonate	98o	0	0	0	0	0	0	0	0	0
	98n	No reports								
	99o	0	0	0	0	0	0	0	0	0
	99n	No reports								
	00o	0	0	0	0	0	0	0	0	0
*,**2,4-D isopropyl	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
ester	95	No reports	11/1	14/4	1474	11/1	1474	1474	11/1	IVA
Cotto	98o	No reports								
	98n	No reports								
	99o	No reports								
	99n	No reports								
	00o	No reports								
* 0.4 D'd' 1	00n	No reports	274	27.4	274	27.4	27.4	27.4	274	374
* 2,4-Dithiobiuret	88 95	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
	95 980	No reports No reports								
	98n	No reports								
	990	No reports								
	99n	0	0	0	0	122,493	0	342	122,835	0
	00o	No reports								
	00n	0	0	0	0	55,816	0	0	55,816	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
330-54-1	* Diuron	88 95 980	NR 8 11	NR 2,765 3,323	NR 10 260	NR 0 0	NR 5 0	NR 2,780 3,583	NR 1,950 14,100	NR 4,730 17,683
		98n 99o	1 8	0 4,919	0 260	0	35,756 0	35,756 5,179	0	35,756 5,179
		99n 00o 00n	1 9 1	0 4,506 0	0 255 0	0 0 0	0 0 0	0 4,761 0	2 0 0	4,761 0
2439-10-3	* Dodine	88	NR	NR	NR	NR	NR	NR	NR	NR
		95	1	10	0	0	0	10	0	10
		980 98n	No reports	0	0	0	0	0	0	0
		99o 99n	No reports	0	0	0	0	0	0	0
		00o 00n	1 No reports	0	0	0	0	0	0	0
120-36-5	*,** 2,4-DP	88	NR	NR	NR	NR	NR	NR	NR	NR
		95	3	260	0	0	0	260	17	277
		980 98n	No reports	0	0	0	0	0	0	0
		99o 99n	5	68	0	0	0	68	0	68
		99n 00o	1 3	2 0	0	0	0	2 0	54 0	56 0
		000 00n	No reports	V	· ·	V	· ·	U	Ŭ	O .
1320-18-9	*,** 2,4-D propylene glycol butyl ether ester	88 95 980 98n 990 99n	NR No reports No reports No reports No reports No reports	NR	NR	NR	NR	NR	NR	NR
		00o	1	0	0	0	0	0	0	0
2502 52 0	de de de la Constantina del Constantina de la Co	00n	No reports	3.15) I D	110) I D	3.70	110	3.75
2702-72-9	*,** 2,4-D sodium salt	88 95	NR 1	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0
		980 98n	1 No reports	0	0	0	0	0	0	0
		990 99n	1 No reports	0	30	0	0	30	0	30
		00o 00n	No reports	0	0	0	0	0	0	0
106-89-8	*,** Epichlorohydrin	88	78	707,107	4,917	68,750	2,524	783,298	307	783,605
		95	69 75	321,450	26,937	0	19,035	367,422	893 7.751	368,315
		980 98n	75 8	198,155 45	434 0	0 12,162	2,167 0	200,756 12,207	7,751 8,852	208,507 21,059
		990	73	146,482	305	0	1,745	148,532	2,173	150,705
		99n	9	60	1	0	0	61	719	780
		00o	72	201,004	389	0	3,950	205,343	11,074	216,417
		00n	6	61	0	0	0	61	29	90

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	eled	Energy R	Recovery	Т	reated	Quantity	Total	Non Buoduo
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
* Diuron	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	300	0	0	2	0	5,711	6,568	12,581	0
	98o	250	0	0	0	0	20,767	7,292	28,309	125
	98n 99o	0 250	0	0	0	0	0 4,336	35,756 26,196	35,756 30,782	0 5
	99n	0	0	0	0	18,317	0	20,170	18,319	0
	00o	250	0	0	0	0	44	4,294	4,588	0
	00n	0	0	0	0	20,836	2	0	20,838	0
* Dodine	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	270	5	275	0
	98o 98n	O No sements	0	0	0	0	0	0	0	0
	9811 990	No reports 0	0	0	0	0	0	0	0	0
	99n	No reports	U	O .	U	Ů,	Ü	O	Ů	Ů.
	00o	0	0	0	0	0	0	0	0	0
	00n	No reports								
*,**2,4-DP	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	5,633	0	0	0	0	11	536	6,180	0
	980	O No non onto	0	0	0	0	0	0	0	0
	98n 99o	No reports 0	0	0	0	0	0	68	68	0
	99n	0	0	0	0	9,954	0	56	10,010	0
	00o	0	0	0	0	0	0	0	0	0
	00n	No reports								
*,**2,4-D propylene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
glycol butyl	95	No reports								
ether ester	980	No reports								
	98n 99o	No reports No reports								
	99n	No reports								
	00o	0	0	0	0	0	0	0	0	0
	00n	No reports								
*,**2,4-D sodium salt	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	5,139	0	0	5,139	0
	980 98n	0 No reports	0	0	0	4,600	0	0	4,600	0
	990	no reports	0	0	0	20,000	0	30	20,030	0
	99n	No reports	U	V	O .	20,000	Ü	50	20,030	· ·
	00o	0	0	0	0	17,700	0	0	17,700	0
	00n	No reports								
*,**Epichlorohydrin	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	13,263,282	0	4,331,319	171,461	4,190,667	952,542	343,764	23,253,035	20,516
	980	10,499,178	17,715	4,809,942	77,141	24,705,268	953,525	201,067	41,263,836	0
	98n 99o	0 11,169,456	0	49,900 4,120,790	8,069 103,015	546,631 32,646,933	0 489,349	23,091 151,387	627,691 48,680,930	0
	990 99n	11,109,430	0	303	0 0	849,911	469,349	811	851,025	0
	00o	9,730,583	29	4,588,509	120,177	270,321,453	313,841	673,585	285,748,177	383
	00n	0	0	0	0	858,419	820	55	859,294	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

CAS Number Chemical Year Total Forms Number Total Air Emissions Number Water Discharges Pounds Underground Injection Pounds Releases Pounds Pounds Off-site to Releases Pounds Pounds 13194-48-4 * Ethoprop 88 NR NR	off-site Releases Pounds NR 174,796 116,478
95 6 506 0 0 174,290 174,796 0 980 6 34 0 0 116,444 116,478 0 98n 1 0 0 0 0 0 0 0 0 6 98n 1 0 0 0 0 121,886 121,887 0 99n 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	174,796 116,478 6
95 6 506 0 0 174,290 174,796 0 980 6 34 0 0 116,444 116,478 0 98n 1 0 0 0 0 0 0 0 0 6 98n 1 0 0 0 0 121,886 121,887 0 99n 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	174,796 116,478 6
98n 1 0 0 0 0 121,886 121,887 0 99n 1 0 0 0 0 0 0 0 0 27 000 6 46 0 0 0 104,984 105,030 0 110-80-5 2-Ethoxyethanol 88 110 2,431,310 120,164 0 52 2,551,526 71,142 95 40 222,940 891 0 0 223,831 12,595 980 26 88,954 1 0 0 0 88,955 2,013 98n 14 550 0 0 0 88,955 2,013 98n 14 550 0 0 0 550 976 990 25 139,112 377 0 17 139,506 1,000 99n 21 1,138 1 0 0 0 1,139 83,634 000 23 75,325 130 0 0 75,455 849 000 16 51 250 0 10,470 10,771 661	6
990 7 1 0 0 121,886 121,887 0 27 000 6 46 0 0 0 0 104,984 105,030 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
99n	121 007
110-80-5 2-Ethoxyethanol 88 110 2,431,310 120,164 0 52 2,551,526 71,142 95	121,887
110-80-5 2-Ethoxyethanol 88 110 2,431,310 120,164 0 52 2,551,526 71,142 95	27 105,030
110-80-5	103,030
95 40 222,940 891 0 0 223,831 12,595 980 26 88,954 1 0 0 0 88,955 2,013 98n 14 550 0 0 0 0 550 976 990 25 139,112 377 0 17 139,506 1,000 99n 21 1,138 1 0 0 0 1,139 83,634 000 23 75,325 130 0 0 0 75,455 849 00n 16 51 250 0 10,470 10,771 661 140-88-5 *** Ethyl acrylate 88 105 245,982 1,211 0 265 247,458 7,110 95 106 221,362 542 0 523 222,427 10,182	2,622,668
980 26 88,954 1 0 0 88,955 2,013 98n 14 550 0 0 0 0 550 976 990 25 139,112 377 0 17 139,506 1,000 99n 21 1,138 1 0 0 0 1,139 83,634 000 23 75,325 130 0 0 75,455 849 00n 16 51 250 0 10,470 10,771 661 140-88-5 *** Ethyl acrylate 88 105 245,982 1,211 0 265 247,458 7,110 95 106 221,362 542 0 523 222,427 10,182	236,426
990 25 139,112 377 0 17 139,506 1,000 99n 21 1,138 1 0 0 1,139 83,634 000 23 75,325 130 0 0 75,455 849 00n 16 51 250 0 10,470 10,771 661 140-88-5 *** Ethyl acrylate 88 105 245,982 1,211 0 265 247,458 7,110 95 106 221,362 542 0 523 222,427 10,182	90,968
99n 21 1,138 1 0 0 1,139 83,634 000 23 75,325 130 0 0 75,455 849 00n 16 51 250 0 10,470 10,771 661 140-88-5 ** Ethyl acrylate 88 105 245,982 1,211 0 265 247,458 7,110 95 106 221,362 542 0 523 222,427 10,182	1,526
140-88-5 ** Ethyl acrylate 88 105 245,982 1,211 0 265 247,458 7,110 95 106 221,362 542 0 523 222,427 10,182	140,506
140-88-5 ** Ethyl acrylate	84,773
140-88-5 ** Ethyl acrylate 88 105 245,982 1,211 0 265 247,458 7,110 95 106 221,362 542 0 523 222,427 10,182	76,304
95 106 221,362 542 0 523 222,427 10,182	11,432
	254,568
960 100 125,762 110 0 524 124,590 12,010	232,609 136,412
98n 10 3,372 0 0 0 3,372 267	3,639
990 97 129,276 111 810 516 130,713 28,772	159,485
99n 12 1,844 1 0 14,649 16,494 880	17,374
000 97 110,355 100 403 221 111,079 9,461	120,540
00n 13 798 0 0 12,544 13,342 435	13,777
	8,404,179
	1,002,057
	9,660,958
98n 620 129,365 2,750 913 14,229 147,257 23,524	170,781
	9,739,308
99n 594 117,803 1,810 11,684 32,615 163,912 166,355 00o 1,067 8,118,942 14,791 534,858 37,481 8,706,072 108,005	330,267 8,814,077
000 1,007 8,118,542 14,771 334,838 37,481 8,700,072 100,003 00n 578 200,708 577 28,148 12,243 241,676 23,483	265,159
541-41-3 Ethyl chloro- 88 5 13,903 0 0 13,903 0	13,903
formate 95 3 2,020 5 0 5 2,030 0	2,030
980 5 2,259 5 0 5 2,269 0	2,269
98n No reports	
990 4 2,200 5 0 5 2,210 0	2,210
99n No reports	
000 5 1,846 5 0 5 1,856 0	1,856
759-94-4 * Ethyl dipropyl- 88 NR	
759-94-4 * Ethyl dipropylthiocarbamate 88 NR	NID
980 5 2,008 115 2,088 0 4,211 4,565	NR 12 303
98n 1 0 0 0 0 0 0 0	12,393
990 4 2,574 156 903 0 3,633 3,570	12,393 8,776
99n No reports	12,393 8,776 0
000 4 2,034 95 6,083 0 8,212 2,798	12,393 8,776
00n No reports	12,393 8,776 0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen (see Appendix C for more information). Ethylbenzene meets OSHA carcinogen standard effective for the 2001 reporting year.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recy	cled	Energy	Recovery	Т	reated	Oventity	Total	Non Duoduo
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
Ethoprop	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	9	0	0	0	0	9,404	174,442	183,855	0
	98o	95	0	0	0	0	4,943	116,478	121,516	0
	98n	0	0	0	0	12,176	0	6	12,182	0
	990	69	0	0	0	0	20,347	137,041	157,457	0
	99n 00o	0	0	0	0	50,057 0	2 228	27 105,026	50,084 108,364	0
	000 00n	0	0	0	0	27,193	3,338	105,026	27,199	0
2-Ethoxyethanol	88	NA	NA	NA	NA	27,193 NA	NA	NA	27,199 NA	NA
2-Ethoxycthanol	95	2,300	1,720	434,164	142,160	1,332,131	438,878	222,188	2,573,541	36,526
	98o	1,400	0	584,971	93,670	507,214	847,586	112,530	2,147,371	10,515
	98n	0	26,052	0	2,939,348	77,858	15,458	1,509	3,060,225	0
	99o	1,200	0	12,992,481	92,566	882,595	906,595	150,824	15,026,261	0
	99n	1,245,636	87,571	0	1,956,055	1,168,105	1,528,555	1,906	5,987,828	10
	00o	1,200	0	2,642,249	208,006	234,922	262,557	95,299	3,444,233	0
	00n	0	0	1,098	156,732	622,820	105	11,576	792,331	0
* Ethyl acrylate	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	79	32,449	8,159,796	1,356,852	487,880	96,769	231,219	10,365,044	24,056
	98o	381,888	191	8,430,381	1,518,284	1,178,908	353,939	138,413	12,002,004	4,152
	98n	0	9,269	0	887,313	252,221	45	3,633	1,152,481	0
	99o	606,528	260	10,064,209	1,717,979	887,528	368,981	168,304	13,813,789	2,509
	99n	0	0	0	8,908	454,088	33,550	17,120	513,666	0
	00o	979,107	70	7,531,839	1,309,783	1,170,964	602,439	119,729	11,713,931	1,737
* Ethylbenzene	00n 88	0 NA	0 NA	0 NA	77,525 NA	313,636 NA	120 NA	24,352 NA	415,633 NA	12 NA
Euryibenzene	95	25,033,644	6,790,404	40,943,220	11,380,737	19,494,726	1,860,236	10,894,758	116,397,725	13,400
	98o	28,923,181	6,353,297	36,777,436	10,134,419	16,346,276	2,311,912	9,593,575	110,440,096	53,148
	98n	2,616,137	382,495	42,357	18,808,007	2,401,346	1,389,385	575,473	26,215,200	101,940
	99o	24,799,246	5,612,276	33,384,476	8,549,910	17,501,809	1,737,081	9,935,727	101,520,525	46,301
	99n	3,403,407	86,644	111,775	6,092,137	2,735,224	941,619	149,310	13,520,116	12,921
	00o	18,892,443	6,834,372	31,084,276	8,978,348	19,458,720	1,300,791	9,069,857	95,618,807	13,142
	00n	4,413,259	69,158	108,540	5,783,224	2,545,729	1,145,153	283,881	14,348,944	3,653
Ethyl chloro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
formate	95	0	0	0	0	3,300	0	1,980	5,280	10
	98o	0	0	0	0	53,660	0	2,035	55,695	0
	98n	No reports								
	990	0	0	0	0	21,445	0	1,998	23,443	0
	99n	No reports								
	000	0	42	0	0	52,398	160	1,875	54,475	0
Etharl dimension	00n	No reports	N.T.A	NT A	NIA	NTA	NT A	NT A	NT A	NTA.
Ethyl dipropyl- thiocarbamate	88 95	NA 0	NA 0	NA 0	NA 0	NA 6,500	NA 33,010	NA 12,476	NA 51,986	NA 0
anocaroamate	95 980	0	0	0	0	70,619	33,089	8,528	112,236	524
	980 98n	0	0	0	0	11,716	33,089	0,328	112,230	0
	990	0	0	0	0	859	14,694	7,119	22,672	1,508
	99n	No reports	3	J	O	037	17,027	7,117	22,072	1,500
	00o	0	0	0	0	819	61,045	10,163	72,027	9,222
	00n	No reports	,		Ü	7	,+	,	.=,.=,	-,===

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen (see Appendix C for more information). Ethylbenzene meets OSHA carcinogen standard effective for the 2001 reporting year.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commu						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
74-85-1	* Ethylene	88 95 980 98n 990 99n 000	274 289 314 9 303 9 302	50,503,039 35,223,562 31,036,140 46,345 25,442,444 42,756 23,167,072	15,214 27,574 3,059 0 918 0 889	17,203 0 4,217 0 65,158 0 31,447	13,250 16 83 0 71,624 0	50,548,706 35,251,152 31,043,499 46,345 25,580,144 42,756 23,199,408	11,432 1,771 1,815 0 361 0 395	50,560,138 35,252,923 31,045,314 46,345 25,580,505 42,756 23,199,803
	Ethylenebisdithio- carbamic acid, salts and esters	95 980 98n 990 99n 000 00n	8 NR 3 4 1 4 2 6 2	25,777 NR 1,630 164 0 256 5 150	0 NR 0 0 0 0 0	0 NR 0 0 0 0	0 NR 0 0 0 0 0	25,777 NR 1,630 164 0 256 5 150	0 NR 0 513 0 0 159 0	25,777 NR 1,630 677 0 256 164 150
107-21-1	* Ethylene glycol	88 95 980 98n 990 99n 000 00n	1,456 1,317 1,284 390 1,244 403 1,233 401	13,218,339 7,224,374 5,994,700 31,993 5,431,551 25,017 4,471,829 125,489	3,747,561 869,708 828,948 1,215 542,567 1,480 723,648 2,577	7,927,570 12,554,675 327,030 215,158 732,545 492,264 527,934 54,005	736,344 983,550 528,455 473,025 455,122 643,972 323,230 812,897	25,629,814 21,632,307 7,679,133 721,391 7,161,785 1,162,733 6,046,641 994,968	2,595,276 1,480,855 1,239,379 659,027 2,193,136 255,646 3,190,514 2,746,617	28,225,090 23,113,162 8,918,512 1,380,418 9,354,921 1,418,379 9,237,155 3,741,585
151-56-4	** Ethyleneimine	88 95 980 98n 990 99n 000 00n	1 1 1 1 1 2 1	500 3 21 13 6 4 3	0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0	500 3 21 13 6 4 3	0 0 0 0 0 0 153 0	500 3 21 13 6 157 3 0
75-21-8	*,** Ethylene oxide	88 95 980 98n 990 99n 000 00n	203 169 136 19 131 18 133 20	4,640,310 939,303 584,924 105,764 458,093 37,038 423,874 41,556	44,851 5,230 372 0 1,157 1 6,912	11,125 130,000 22,561 0 10,796 0 226	54,700 2,208 1,751 0 1,750 0 401	4,750,986 1,076,741 609,608 105,764 471,796 37,039 431,413 41,556	20,663 8,663 1,860 0 60,920 4 56,820	4,771,649 1,085,404 611,468 105,764 532,716 37,043 488,233 41,556
96-45-7	*,** Ethylene thiourea	88 95 980 98n 990 99n 000	6 11 14 2 13 4 12	500 775 299 0 269 24 265	0 0 5 0 5 0 5 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	500 775 304 0 274 24 275	2,250 19,665 6,387 0 5,422 773 1,890 129	2,750 20,440 6,691 0 5,696 797 2,165 139

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Rec	ycled	Energy	Recovery	Tr	eated	0	T-4-1	N D d
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
* Ethylene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	196,803,539	3	403,745,755	10,615,177	495,602,266	2,116,568	34,762,869	1,143,646,177	765,799
	980	123,871,793	0	518,927,961	12,978,078	509,148,642	3,013,379	29,322,220	1,197,262,073	1,428,754
	98n 99o	0 146,760,300	0 317	0	11 126 101	540 565,895,661	4 761 444	46,087 26,540,333	46,627 1,166,171,577	393,952
	990 99n	140,760,300	0	411,077,331	11,136,191	8,080	4,761,444 0	42,624	50,704	393,932
	000	150,547,424	318	472,762,499	17,008,011	2,754,282,453	1,751,482	22,640,811	3,418,992,998	313,839
	00n	0	0	0	0	410,589	4	25,567	436,160	0
Ethylenebisdithio-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
carbamic acid,	95	0	0	0	0	0	7,250	1,500	8,750	0
salts and esters	98o	0	0	0	0	0	3,329	672	4,001	0
	98n	0	0	0	0	0	0	0	0	0
	990	0	0	0	0	0	8,070	356	8,426	0
	99n	0	0	0	0	129,960	0	164	130,124	0
	00o	0	0	1,057	2,290	0	18,092	149	21,588	0
* Ethylene glycol	00n 88	0 NA	0 NA	0 NA	0 NA	90,092 NA	0 NA	0 NA	90,092 NA	0 NA
Eurytene grycor	95	366,424,640	101,902,466	5,926,147	13,192,654	65,797,774		22,744,086	610,568,109	305,160
	98o	461,217,302	49,853,776	6,683,532	18,938,570	64,587,563		9,901,238	642,625,287	819,615
	98n	10,537,568	10,238,097	12,386	3,186,484	1,914,090	516,637	812,855	27,218,117	12,610
	990	470,136,680	59,428,456	7,811,770	15,057,598	50,194,588		10,437,184	640,892,793	931,522
	99n	7,245,393	12,269,659	615,919	1,408,820	2,099,544	1,737,251	1,242,416	26,619,002	830
	00o	419,644,691	61,325,680	5,394,475	14,843,142	77,003,486	29,881,855	7,938,576	616,031,905	73,021
	00n	7,021,950	12,690,039	8,671	1,332,605	2,243,203	524,434	3,616,930	27,437,832	45,358
** Ethyleneimine	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	34,000	0	3	34,003	0
	980 98n	0	0	0 0	0 31,069	24,000	0	21 13	24,021 31,082	0
	990	0	0	0	0	23,000	0	6	23,006	0
	99n	0	0	0	0	107,040	0	157	107,197	0
	00o	0	0	0	0	19,000	0	3	19,003	0
	00n	0	0	0	0	55,812	0	0	55,812	0
*,**Ethylene oxide	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	127,110	307	16,940	0	9,974,540	70,255	1,073,275	11,262,427	15,962
	980	16,698	1,140	13,121	10	8,006,017	179,253	555,898	8,772,137	54,313
	98n	0	0	0	1,043,180	2,998,788	10,810	105,044	4,157,822	106
	990	33,020	7,400	148,002	16	8,335,278	154,693	525,358	9,203,767	4,031
	99n	0	20,000	176 677	0 5	3,154,065	11,920	37,729 476,646	3,203,714	587 9,443
	00o 00n	263,388 0	20,000	176,677 0	0	14,869,064 3,431,433	127,221 16,963	41,643	15,933,001 3,490,039	9,443
*,**Ethylene thiourea	88	NA	NA	NA	NA	9,431,433 NA	NA	NA	NA	NA
, and the modern	95	1	840	0	0	1	6,282	19,877	27,001	0
	980	430	565	0	0	0	8,632	6,635	16,262	0
	98n	0	0	0	0	0	0	0	0	0
	990	2,700	800	0	0	0	3,650	5,726	12,876	0
	99n	0	0	0	0	690,152	0	795	690,947	0
	00o	2,750	580	0	0	0	2,995	2,210	8,535	0
	00n	0	0	0	0	42,560	774	139	43,473	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commeny						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
75-34-3	Ethylidene dichloride	88 95 980 98n 990	NR 6 7 6	NR 40,484 43,977 393 82,306	NR 16 0 0	NR 0 0 0	NR 0 0 0 3	NR 40,500 43,977 393 82,309	NR 0 0 8 0	NR 40,500 43,977 401 82,309
		99n 00o 00n	2 11 5	92 14,957 2	1 0 0	0 0 0	0 0 0	93 14,957 2	9 7 0	102 14,964 2
52-85-7 *	Famphur	88 95 980 98n 990 99n	NR 2 2 1 2 1	NR 0 0 5 0 5	NR 0 0 0 0	NR 0 0 0 0	NR 0 0 0 0 0	NR 0 0 5 0 5	NR 0 9,200 0 5,612	NR 0 9,200 5 5,612
60168-88-9 *	Fenarimol	00o 00n 88	1 1 NR	0 0 NR	0 0 NR	0 0 NR	0 0 NR	0 0 NR	0 0 NR	0 0 NR
		95 980 98n 990 99n 000 00n	No reports No reports 1	1,000 0 0	0 0	0 0	0 0	1,000 0 0	0 0	1,000 0 0
13356-08-6 *	Fenbutatin oxide	88 95 980 98n 990	No reports NR 1 2 No reports 2	NR 0 664	NR 0 0	NR 0 660	NR 0 0	NR 0 1,324	NR 0 0	NR 0 1,324
		99n 00o 00n	No reports 2 No reports	664	0	1,260	0	1,924	0	1,924
66441-23-4 *	Fenoxaprop ethyl	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
72490-01-8 *	Fenoxycarb	88 95 980 98n	NR 1 1 No reports	NR 0 0	NR 0 0	NR 0 0	NR 0 0	NR 0 0	NR 0 1	NR 0 1
		990 99n 000 00n	1 No reports 1 No reports	0	0	0	0	0	0	0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	опшнией)		Recyc	eled	Energy R	ecovery	T	reated	0 "	T. 4.1	N D I
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
	Ethylidene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	dichloride	95	1,300,000	0	1,392,000	0	1,612,000	19,149	40,169	4,363,318	15,005
		98o	1,600,000	0	1,431,278	0	2,332,070	23,768	43,948	5,431,064	89
		98n	0	0	0	10,275	35,933	4,528,132	395	4,574,735	0
		990	2,190,000	0	2,712,610	456	3,522,136	10,830	82,225 99	8,518,257	80
		99n 00o	0 1,400,000	0 103,754	0 4,746,196	0 347	117,269 2,196,764	0 14,870	14,934	117,368 8,476,865	0 30
		000 00n	1,400,000	0	4,740,190	0	95,642	836	14,934	96,479	0
*	Famphur	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	0	0	3,758	0	3,758	0
		98o	0	0	0	0	0	46,000	0	46,000	9
		98n	0	0	0	0	25,761	0	7	25,768	0
		99o	0	0	0	0	0	2,200	0	2,200	5,612
		99n	0	0	0	0	25,757	0	4	25,761	0
		00o	0	0	0	0	0	2,900	0	2,900	0
*	Fenarimol	00n 88	0 NA	0 NA	0 NA	0 NA	0 NA	0 NA	0 NA	0 NA	0 NA
	renarimoi	95	0	0	0	0	0	310	650	960	0
		98o	0	0	0	0	0	0	0.50	0	0
		98n	No reports	· ·	Ŭ	Ŭ	· ·	Ü	· ·		V
		990	0	0	0	0	0	0	0	0	0
		99n	No reports								
		00o	0	0	0	0	0	0	0	0	0
		00n	No reports								
*	Fenbutatin oxide	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	0	0	0	0	0	0
		98o	0	0	0	0	0	0	1,324	1,324	0
		98n 99o	No reports 0	0	0	33,822	0	0	1,324	35,146	0
		990 99n	No reports	U	U	33,622	U	U	1,324	33,140	U
		00o	0	0	0	0	0	0	1,924	1,924	0
		00n	No reports	ŭ	Ů	ŭ	· ·	Ü	1,22.	1,,,2.	Ĭ
*	Fenoxaprop ethyl	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	No reports								
		98o	No reports								
		98n	No reports								
		99o	No reports								
		99n	No reports								
		00o 00n	No reports No reports								
*	Fenoxycarb	88	NO Teports NA	NA	NA	NA	NA	NA	NA	NA	NA
	1 2110/13 2410	95	0	0	0	0	0	0	0	0	0
		98o	0	0	0	0	40,000	0	1	40,001	0
		98n	No reports							<u> </u>	
		99o	0	0	0	0	28,000	0	0	28,000	0
		99n	No reports								
		00o	0	0	0	0	23,000	0	0	23,000	0
		00n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

(0000000							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
39515-41-8	*	Fenpropathrin	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	1	0	0	0	0	0	0	0
			980 98n	No reports	0	0	0	0	0	0	0
			990	1	0	0	0	0	0	0	0
			99n	No reports							
			00o	1	0	0	0	0	0	0	0
55 20 0	*	E-udhi-u	00n	No reports	NID	NID	ND	NID	ND	ND	ND
55-38-9	r	Fenthion	88 95	NR 1	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0
			98o	1	1	0	0	0	1	0	1
			98n	No reports						·	
			990	No reports							
			99n	No reports	1	0	0	0	1	0	1
			00o 00n	No reports	1	0	0	U	1	U	1
51630-58-1	*	Fenvalerate	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	1	0	0	0	0	0	0	0
			98o	No reports							
			98n 99o	No reports No reports							
			99n	No reports							
			00o	No reports							
			00n	No reports							
14484-64-1	*	Ferbam	88	NR	NR	NR	NR	NR	NR	NR	NR
			95 98o	No reports No reports							
			98n	No reports							
			99o	No reports							
			99n	No reports							
			00o 00n	No reports No reports							
69806-50-4	*	Fluazifop butyl	88	NR NR	NR	NR	NR	NR	NR	NR	NR
			95	No reports							
			98o	1	0	0	0	0	0	0	0
			98n	No reports		0	0	0	0	0	
			99o 99n	No reports	0	0	0	0	0	0	0
			000	1	0	0	0	0	0	0	0
			00n	No reports							
2164-17-2	*	Fluometuron	88	2	500	0	0	0	500	3,700	4,200
			95	6	796 782	0	0	0	796	2,355	3,151
			98o 98n	5 No reports	782	0	0	0	782	745	1,527
			990	4	263	0	0	0	263	0	263
			99n	No reports							
			00o	3	15	0	0	0	15	0	15
			00n	No reports							

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

10	опиниеи)		Recyc	cled	Energy R	Recovery	Т	reated	0	T-4-1	Non Donadora
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
*	Fenpropathrin	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	0	0	0	0	0	0
		980 98n	0 No reports	0	0	0	0	0	0	0	0
		99o	0	0	0	0	0	0	0	0	0
		99n	No reports								
		00o	0	0	0	0	0	0	0	0	0
*	Fenthion	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
	renunon	95	0	0	0	0	0	0	0	0	0
		98o	0	0	0	0	0	960	1	961	0
		98n	No reports								
		99o	No reports								
		99n 00o	No reports 0	0	0	0	0	1,976	1	1,977	0
		000 00n	No reports	U	V	O	· ·	1,770	1	1,577	l o
*	Fenvalerate	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	0	0	0	0	0	0
		980	No reports								
		98n 99o	No reports No reports								
		99n	No reports								
		00o	No reports								
		00n	No reports								
*	Ferbam	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95 98o	No reports No reports								
		98n	No reports								
		99o	No reports								
		99n	No reports								
		00o	No reports								
*	Fluazifop butyl	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tradeliop easy:	95	No reports	- 1	- 1,12	1111	1.1.1	- 11-2	1,12	1,12	1,12
		98o	0	0	0	0	0	0	0	0	0
		98n	No reports	^	_			^	_		
		990 99n	0 No reports	0	0	0	0	0	0	0	0
		000	0	0	0	0	0	0	0	0	0
		00n	No reports					•			
*	Fluometuron	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95 08-	0	0	0	2	0	16,900	5,646	22,548	13,000
		980 98n	0 No reports	0	0	0	25,000	8,541	1,385	34,926	0
		990	0	0	0	0	37,000	2,512	1,680	41,192	0
		99n	No reports								
		00o	0	0	0	0	18,000	2,600	2,600	23,200	0
		00n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

Comme						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
7782-41-4	Fluorine	88 95 980 98n 990	NR 7 10 2 13	NR 18,319 81,938 39,082 86,552	NR 15,000 49,857 0 54,153	NR 0 0 0 0	NR 0 0 90,778	NR 33,319 131,795 129,860 140,705	NR 0 0 0	NR 33,319 131,795 129,860 140,705
51.21.0	77	99n 00o 00n	3 11 4	427 8,336 3,799	0 40,274 0	0 0 0	105,417 70,200 104,779	105,844 118,810 108,578	70,009 11,287	105,844 188,819 119,865
51-21-8	Fluorouracil	88 95 980 98n	NR No reports 1 No reports	NR 0	NR 0	NR 0	NR 250	NR 250	NR 250	NR 500
		990 99n 000	No reports 1	0	0	0	250 250	250 250	500 250	750 500
69409-94-5	* Fluvalinate	00n 88 95 980 98n	No reports NR 1 1 No reports	NR 0 0	NR 0 0	NR 0 0	NR 0 0	NR 0 0	NR 0 0	NR 0 0
		990 99n 000 00n	No reports 2 No reports	0	0	0	0	0	0	0
133-07-3	* Folpet	88 95 980 98n	NR 5 8 No reports	NR 16 56	NR 5 10	NR 0 0	NR 0 0	NR 21 66	NR 1,941 4,103	NR 1,962 4,169
		990 99n 000 00n	6 No reports 7 No reports	36 823	10 10	0	0	46 833	3,023 3,033	3,069 3,866
72178-02-0	Fomesafen	88 95 980 98n 990 99n	NR 2 2 1 2 1	NR 10 884 0 1,210	NR 0 1,532 0 1,149	NR 0 0 0 0 0	NR 0 0 0 0	NR 10 2,416 0 2,359	NR 750 9,191 0 7,976	NR 760 11,607 0 10,335
50-00-0	*,** Formaldehyde	00o 00n 88	2 1 823	1,298 0 12,459,138	1,176 0 904,547	9,608,524	0 0 494,111	2,474 0 23,466,320	6,740 0 1,409,999	9,214 0 24,876,319
		95 980 98n 990 99n 000 00n	802 831 38 822 34 834 40	11,755,024 11,836,859 143,166 12,312,444 85,118 11,542,027 65,299	402,609 422,847 0 430,173 1 408,124	7,313,034 9,648,556 76,238 10,849,428 31,437 12,174,896 53,984	132,453 203,982 83,190 313,776 0 105,180 3,067	19,603,120 22,112,244 302,594 23,905,821 116,556 24,230,227 122,360	210,666 355,781 6,228 184,560 6,264 217,246 19,493	19,813,786 22,468,025 308,822 24,090,381 122,820 24,447,472 141,853

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(continuea)		Recyc	eled	Energy I	Recovery	T	reated	0	Т-4-1	Non Donadon
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
Fluorine	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	15,000	0	33,300	48,300	0
	98o	0	0	0	0	17,450	36,510	131,795	185,755	3
	98n 99o	0	0	0	0	0 26,581	0 20,435	129,859 140,495	129,859 187,511	0 32
	990 99n	0	0	0	0	31,839	20,433	105,844	137,683	0
	000	262,000	0	0	0	1	11,331	188,716	462,048	7
	00n	0	0	0	0	31,624	0	119,865	151,489	0
Fluorouracil	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	No reports								
	98o	964	0	0	0	0	0	0	964	0
	98n	No reports								
	990	1,188	0	0	0	0	0	0	1,188	0
	99n	No reports	0	0	0	0	0	0	1 271	0
	00o 00n	1,271 No reports	U	0	U	0	U	0	1,271	0
* Fluvalinate	88	NA NA	NA	NA	NA	NA	NA	NA	NA	NA
Travarinace	95	0	0	0	0	0	0	0	0	0
	98o	0	0	0	0	0	0	0	0	0
	98n	No reports								
	99o	0	0	0	0	0	0	0	0	0
	99n	No reports								
	00o	0	0	0	0	0	0	0	0	0
* Folnet	00n	No reports	214	NIA	D.T.A.	NIA	214	NIA	D.T.A.	214
* Folpet	88 95	NA	NA 80	NA 0	NA	NA 801	NA 290	NA 1.062	NA 3,133	NA 0
	93 980	0 2	0	0	0	2,100	0	1,962 4,121	6,223	0 0
	98n	No reports	U	V	Ü	2,100	U	7,121	0,223	· ·
	990	943	0	0	0	2,000	627	3,069	6,639	0
	99n	No reports				, , , , ,		,,,,,,	,,,,,	
	00o	1,630	0	0	0	0	728	3,741	6,099	0
	00n	No reports								
Fomesafen	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	0 0 4 5	200	200	0
	980 98n	0	0	0	0	56,080 12,741	8,845	12,776	77,701 12,741	0
	9811 990	0	0	0	0	64,083	0 1,522	0 11,035	76,640	0
	99n	0	0	0	0	15,000	0	0	15,000	0
	00o	0	0	0	0	6,309	1,522	9,558	17,389	0
	00n	0	0	0	0	18,390	0	0	18,390	0
*,**Formaldehyde	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	75,909,072	56,999	6,758,262	423,718	68,740,738	2,919,821	19,659,066	174,467,676	268,331
	980	101,303,291	591,297	14,710,847	372,961	92,722,738	3,673,443	21,923,324	235,297,901	16,008
	98n	189	0	5,866	1,582,146	531,568	14,648	306,176	2,440,593	0
	990	106,756,307	429,652	15,555,496	393,011	83,186,022	4,311,787	23,776,793	234,409,068	15,210
	99n	45,284	0 288 881	2,110	114,378	1,316,978	16,496	117,708	1,612,954	10
	00o 00n	112,270,707 5,954	288,881 0	23,223,211 10,048	565,407 157,177	177,227,123 1,942,240	6,301,466 140,091	24,926,748 131,426	344,803,543 2,386,936	4,498 0
	JUII	3,734	U	10,040	1,1,1//	1,774,240	170,071	131,420	2,300,930	

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
64-18-6	* Formic acid	88	NR	NR	NR	NR	NR	NR	NR	NR
0.100	10111110 0010	95	269	592,409	15,759	11,492,418	3,210	12,103,796	26,377	12,130,173
		98o	276	955,933	96,168	10,842,580	3,299	11,897,980	46,835	11,944,815
		98n	51	3,053	19	326,344	65,624	395,040	3,175	398,215
		99o	268	770,867	172,924	11,424,031	3,622	12,371,444	49,940	12,421,384
		99n	48	2,089	11	31,000	0	33,100	2,819	35,919
		00o	273	767,074	280,151	8,614,752	4,270	9,666,247	55,723	9,721,970
T (10 1	T 440	00n	51	1,475	6	31,000	0	32,481	365	32,846
76-13-1	Freon 113	88	1,438	70,382,591	32,894	5,965	27,799	70,449,249	1,924,043	72,373,292
		95	138	2,608,115	3,829	6	0	2,611,950	2,560	2,614,510
		980	32	941,033	1,627 0	0	0	942,660	4,287	946,947
		98n 99o	17 25	1,016 840,078	1,932	0	0	1,016 842,010	746 88	1,762 842,098
		990 99n	12	1,178	1,932	0	9,955	11,134	5,392	16,526
		00o	24	675,542	1,292	0	9,933	676,834	500	677,334
		00n	9	518	0	0	0	518	0	518
	Glycol ethers	88	1,629	48,930,602	285,937	362,198	105,185	49,683,922	1,547,840	51,231,762
	,	95	2,198	45,401,044	188,537	132,064	27,700	45,749,345	792,149	46,541,494
		980	2,067	38,638,235	193,191	1,620	41,418	38,874,464	691,268	39,565,732
		98n	259	31,027	0	0	16,900	47,927	17,995	65,922
		99o	1,986	36,329,413	106,588	716	49,186	36,485,903	849,757	37,335,660
		99n	245	46,199	0	0	24,398	70,597	394,750	465,347
		00o	1,958	31,179,323	109,904	45,224	42,498	31,376,949	1,689,325	33,066,273
		00n	245	39,801	4	0	22,904	62,709	2,217,547	2,280,256
76-44-8	*,** Heptachlor	88	2	54,295	2	0	0	54,297	0	54,297
		95	1	203	6	0	0	209	0	209
		98o	No reports	127		-	0	1.40	10	154
		98n	6 No	137	0	5	0	142	12	154
		99o 99n	No reports	5	1	0	0	6	14	20
	Not comparable	99II 00o	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	to prior years***	000 00n	14	6.60	0.00	0.00	2,372.56	2,379.16	221.87	2,601.03
118-74-1	*,** Hexachloro-	88	9	4,045	4	410	0	4,459	443,541	448,000
110 / 1 1	benzene	95	9	566	6,458	480	0	7,504	6,975	14,479
		98o	12	371	4	0	96	471	13,251	13,722
		98n	5	15	0	0	0	15	77	92
		99o	14	560	7	0	23	590	1,497	2,087
		99n	6	11	1	0	13,000	13,012	9	13,021
	Not comparable	00o	74	1,307.52	328.00	20.39	5,988.20	7,644.11	3,035.30	10,679.41
	to prior years***	00n	26	118.72	3.44	28.00	16,712.00	16,862.16	9,985.74	26,847.90
87-68-3	Hexachloro-1,3-	88	9	2,508	153	220	0	2,881	19,640	22,521
	butadiene	95	7	3,310	661	434	0	4,405	252	4,657
		98o	7	2,380	5	0	0	2,385	510	2,895
		98n	7	280	250	5	0	535	480	1,015
		990	8	4,159	1	0	22	4,182	4	4,186
		99n 00o	4	268 3,990	1 0	0	0 4	269 3,994	96 6	365 4,000
		000 00n	6	3,990 16	0	250	0	3,994 266	3	4,000 269
		OOH	U	10	U	230	0	200	3	209

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(continuea)		Recy	cled	Energy	Recovery	Т	Treated	0	T-4-1	N D d
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
* Formic acid	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	95,200	28	7,215,445	236,018	113,989,498	1,522,252	12,253,648	135,312,089	8
	98o	808,843	14	5,818,086	1,774,563	155,610,246	1,591,846	12,185,304	177,788,902	0
	98n 99o	0 710,746	0 10	0	1,973,764 1,731,510	242,133 135,116,811	11,082 1,392,044	395,995 12,628,981	2,622,974 158,193,969	0 100
	990 99n	/10,/46 0	0	6,613,867 0	1,/31,310	507,537	1,392,044	35,134	543,158	0
	00o	739,637	10	4,947,522	2,086,987	163,872,814	334,275	9,839,660	181,820,905	0
	00n	0	0	0	6	481,138	3,070	32,086	516,300	0
Freon 113	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	2,355,210	913,898	0	103,937	260,926	582,454	2,612,917	6,829,342	30,129
	98o	407,512	73,959	39,916	12,608	3,372	139,670	936,926	1,613,963	6,305
	98n	75,808	67	0	106,221	1,167,895	5,166,938	1,778	6,518,707	0
	990	227,460	97,641	37,035	16,184	4,064	136,023	775,715	1,294,122	65,286
	99n	75,298	117	0	11,418	858,798	17,969	16,578	980,178	0
	00o	107,843 0	159,715 0	0	13,515 0	9,922 743,005	149,755 570	676,560 514	1,117,310 744,089	179 0
Glycol ethers	00n 88	NA	NA	NA	NA	743,003 NA	NA	NA	744,089 NA	NA
Glycor ciners	95	191,650,369	3,642,594	42.841.794	13,279,118	32,439,804	9,480,426	47,485,143	340,819,248	35,258
	98o	141,591,278	4,071,587	32,974,473	13,229,852	33,197,727	10,116,024	40,660,482	275,841,423	377,490
	98n	888,028	164,569	135,664	2,033,726	837,402	101,280	75,786	4,236,455	5,262
	99o	165,270,850	4,199,079	44,249,404	12,836,323	45,035,803	10,155,060	38,521,106	320,267,625	11,103
	99n	1,345,277	40,090	763,444	1,945,894	651,473	463,039	379,922	5,589,139	1,272
	00o	189,133,472	3,514,399	22,947,758	12,606,554	47,133,832	9,664,808	34,224,733	319,225,556	17,380
	00n	1,081,608	15,718	184,243	2,809,460	783,000	910,997	2,277,904	8,062,930	115
*,**Heptachlor	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	3,850	851	209	4,910	0
	980 98n	No reports 0	0	0	0	442 474	35	153	142 662	0
	990	No reports	U	U	U	443,474	33	133	443,662	0
	99n	0	0	0	0	217,288	114	15	217,417	0
Not comparable	00o	0.00	0.00	42.00	0.00	0.00	0.00	0.00	42.00	0.00
to prior years***	00n	0.00	0.00	0.00	0.00	237,739.73	3,773.30	2,394.03	243,907.06	0.00
*,**Hexachloro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzene	95	6,200	1	0	0	2,865,008	428,747	18,549	3,318,505	19
	98o	8,100	1	114,000	54,632	1,577,157	18,214	13,636	1,785,740	0
	98n	0	0	0	0	86,605	38	88	86,731	0
	99o	6,601	26,253	98,000	40,950	5,231,018	22,287	14,175	5,439,284	7
Not commonable	99n	0 6,000.50	12,039.00	0 140,662.00	0	399,458 5,737,195.00	699	13,013	413,170 5,992,192.68	21.752.20
Not comparable to prior years***	00o 00n	0.00	0.00	0.00	12.00	417,731.17	18,146.15 1,315.00	21,577.03 26,843.56	445,901.73	21,752.30 0.00
Hexachloro-1,3-	88	NA	NA	NA	NA	NA	1,515.00 NA	20,643.30 NA	NA	NA
butadiene	95	0	13	133,000	0	6,778,662	164,970	4,444	7,081,089	660,211
	98o	0	0	15,200	0	4,289,000	162,314	2,650	4,469,164	410
	98n	0	0	0	0	283,141	40	363	283,544	0
	99o	280,000	0	0	0	8,715,965	52,784	4,169	9,052,918	36,000
	99n	0	0	0	0	554,740	0	362	555,102	0
	00o	250,000	0	26,548	69	331,945,755	28,841	3,999	332,255,212	0
	00n	0	0	0	0	306,941	776	47	307,764	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

(00000000000000000000000000000000000000						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
319-84-6	** alpha- Hexachloro- cyclohexane	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
77-47-4	* Hexachlorocyclo- pentadiene	88 95 980 98n 990 99n 000 00n	5 4 4 4 4 3 5	78,317 8,311 5,791 10 1,098 16 1,283	6 6 0 0 1 1 1 0	2,131 250 250 0 0 0 0	0 0 5,520 0 0 0 0	80,454 8,567 11,561 10 1,099 17 1,283 22	28,470 2,995 567 500 903 293 1,921	108,924 11,562 12,128 510 2,002 310 3,204
67-72-1	*,** Hexachloroethane	88 95 980 98n 990 99n 000 00n	22 22 15 7 15 9 14	19,077 14,871 44,950 862 41,267 1,326 32,673 1,776	11 3,330 0 0 0 1 0	520 1,378 295 0 320 0 362 250	0 0 0 0 10 9,264 3	19,609 19,579 45,245 862 41,597 10,591 33,038 2,036	128,504 1,208 696 628 0 18,389 2,300 2,563	148,113 20,787 45,941 1,490 41,597 28,980 35,338 4,599
1335-87-1	Hexachloro- naphthalene	88 95 980 98n 990 99n 000 00n	No reports	1,770	10	230	U	2,030	2,303	4,399
70-30-4	* Hexachlorophene	88 95 980 98n 990	NR No reports No reports 1 No reports	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0
		99n 00o 00n	No reports	7	0	0	0	8	165	173
680-31-9	** Hexamethylphos- phoramide	88 95 980 98n 990 99n 000	No reports No reports No reports No reports No reports No reports	0	0	0	0	0	0	0
		00n	No reports	, ,						

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recy	cled	Energy F	Recovery	Т	reated	0	T-4-1	N D d
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
** alpha-Hexachloro- cyclohexane	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
* Hexachlorocyclo- pentadiene	88 95 980 98n 990 99n 000 00n	NA 0 0 0 0 0 0 0	NA 0 0 0 0 0 0 0	NA 0 0 0 0 0 0 21,237 0	NA 0 552 0 388 0 447	NA 272,865 882,835 21,880 392,082 145,509 817,132 126,542	NA 24,908 100,678 2,695,206 10,812 1 34,513 789	NA 11,478 6,611 151 1,980 177 2,008	NA 309,251 990,676 2,717,237 405,262 145,687 875,337 127,350	NA 76 4,800 0 84,000 0 100,000
*,** Hexachloroethane	88 95 980 98n 990 99n 000 00n	NA 4,800 1,100,000 0 1,930,000 138,553 970,000 77,000	NA 0 0 0 164,072 0 57,963 0	NA 1,232,400 1,134,700 0 740,000 0 422,097	NA 75,132 85,401 2,214 87,890 123,769 68,539 43,000	NA 4,875,108 3,887,000 543,137 2,756,485 576,027 115,684,405 526,113	NA 109,188 52,877 2 44,622 162 48,070 43,911	NA 30,473 45,206 1,138 41,248 15,427 35,546 1,725	NA 6,327,101 6,305,184 546,491 5,764,317 853,938 117,286,620 691,749	NA 129,205 36 0 355 10 238
Hexachloro- naphthalene	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA NA	NA	NA	NA	NA NA
* Hexachlorophene	88 95 980 98n	NA No reports No reports 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0
	990 99n 000 00n	No reports 0 No reports 0	0	0	0 733	219,953 110,711	0 54	168 0	220,121 111,498	0
** Hexamethylphos- phoramide	88 95 980 98n 990 99n	NA No reports No reports No reports No reports No reports No reports	NA NA	NA	NA	NA	NA NA	NA	NA	NA
	00o 00n	0 No reports	0	0	0	0	0	0	0	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
110-54-3	n-Hexane	88	NR	NR	NR	NR	NR	NR	NR	NR
110 5 1 5	птехане	95	733	82,155,446	46,402	5,380	11,559	82,218,787	120,420	82,339,207
		98o	816	67,410,027	14,116	26,506	19,597	67,470,246	104,319	67,574,565
		98n	658	954,568	1,670	0	2,491	958,729	38,865	997,594
		990	795	55,144,441	11,134	36,511	7,429	55,199,515	47,697	55,247,212
		99n	650	1,018,755	2,779	5,483	564	1,027,581	28,780	1,056,361
		00o 00n	795 640	52,550,376 1,311,200	12,484 4,417	112,886 1,780	4,856 7,588	52,680,602 1,324,985	33,131 86,066	52,713,733 1,411,051
51235-04-2 *	Hexazinone	88	NR	1,511,200 NR	4,417 NR	1,780 NR	7,388 NR	1,324,983 NR	80,000 NR	1,411,031 NR
31233 04 2	Пехагноне	95	4	760	6,322	0	0	7,082	2,973	10,055
		98o	5	266	2,215	0	0	2,481	750	3,231
		98n	No reports		ŕ			,		ŕ
		99o	5	264	6,297	0	0	6,561	250	6,811
		99n	No reports							
		00o	4	2	1,874	0	0	1,876	0	1,876
67485-29-4 *	II	00n	No reports	ND	ND	ND	ND	ND	NID	NID
0/483-29-4	Hydramethylnon	88 95	NR 2	NR 20	NR 0	NR 0	NR 0	NR 20	NR 0	NR 20
		93 980	1	0	0	0	0	0	0	0
		98n	No reports		Ŭ	· ·	· ·	Ŭ	Ü	Ŭ
		99o	2	10	0	0	750	760	0	760
		99n	No reports							
		00o	2	10	0	0	5	15	0	15
202.01.2	** 1	00n	No reports	27.100	2.1.10		20	25.255	24.522	ć1 000
302-01-2 **	Hydrazine	88 95	55 47	35,199	2,149	0	29	37,377	24,522	61,899
		95 980	47	13,940 10,908	3 188	0 695	5 251	13,948 12,042	23,504 13,394	37,452 25,436
		98n	18	290	0	26,116	120	26,526	824	27,350
		990	47	10,011	641	0	252	10,904	13,092	23,996
		99n	15	267	1	88,378	120	88,766	476	89,242
		00o	47	4,161	1,156	0	250	5,567	0	5,567
		00n	19	445	10,900	0	120	11,465	0	11,465
10034-93-2 **	Hydrazine sulfate	88	4	1,172	0	355,000	0	356,172	0	356,172
		95 98o	3	0	0	260,000	0	260,000 200,000	0	260,000 200,000
		980 98n	No reports	U	U	200,000	U	200,000	U	200,000
		990	1	0	0	190,000	0	190,000	0	190,000
		99n	No reports		ŭ	1,0,000	Ŭ	150,000	Ŭ	1,0,000
		00o	1	0	0	150,000	0	150,000	0	150,000
		00n	No reports							
7647-01-0 *	Hydrochloric	88	DC	DC	DC	DC	DC	DC	DC	DC
	acid	95	1,963	72,469,049	6,871	788,214	24,091	73,288,225	2,369,337	75,657,562
		98o 98n	988 529	58,036,437 554,302,629	2,575 1	100,099 0	21,860 406	58,160,971 554,303,036	1,029,418 510	59,190,389 554,303,546
		98n 99o	997	54,733,116	495	36,795	28,876	54,799,282	751,438	55,550,720
		99n	517	615,116,946	11	0		615,116,962	23	615,116,985
		00o	1,001	53,653,445	96,716	54,125	13,167	53,817,453	1,212,411	55,029,864
		00n	508		47	0		591,981,476	101,198	592,082,674

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

			Rec	ycled	Energy	Recovery	Tr	eated	0	T-4-1	N Dd
•	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
1	n-Hexane	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	4,125,732,524	7,008,155	25,411,631	14,640,356	50,038,708	8,044,644	82,577,258	4,313,453,276	80,332
		980	985,887,771	13,482,101	42,461,972	19,749,861	65,501,311	5,199,840	66,713,440	1,198,996,296	71,437
		98n	4,666,961	392,648	79,618	10,959,023	5,850,748	1,091,133	1,323,001	24,363,132	28,155
		990	687,971,230	11,481,739	54,779,642	21,337,326	61,002,150	4,762,835	54,374,053	895,708,975	330,245
		99n	2,758,492	152,971	132,470	6,852,601	6,310,112	2,609,605	1,029,104	19,845,355	27,677
		00o	267,724,858	7,674,367	42,105,188	16,018,386	56,823,351	5,835,942	53,452,168	449,634,261	74,964
* 1		00n	2,707,749	113,864	70,711	3,747,563	5,948,924	286,003	1,398,945	14,273,759	60,037
*]	Hexazinone	88 95	NA 50	NA	NA	NA	NA 6,954	NA 216,172	NA 0.410	NA	NA 0
		93 980	0	0	0	0	110,000		9,410	232,586	0 0
		980 98n	No reports	U	U	U	110,000	201,891	8,580	320,471	"
		990	0	0	0	0	71,000	164,269	13,155	248,424	0
		99n	No reports	Ü	U	O	71,000	104,207	13,133	240,424	
		00o	0	0	0	0	1,031	157,038	1,876	159,945	0
		00n	No reports	Ü	Ĭ	· ·	1,001	107,000	1,070	10,,,,,	
*]	Hydramethylnon	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	0	0	3	17	20	0
		98o	0	0	0	0	0	0	24	24	0
		98n	No reports								
		99o	0	0	0	0	0	0	5	5	5
		99n	No reports								
		00o	0	0	0	0	0	3,382	0	3,382	0
		00n	No reports								
**]	Hydrazine	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	300	452	0	0	31,538	8,966	37,225	78,481	0
		980	25	0	0	297	99,831	302,545	37,526	440,224	1
		98n	0	0	0	1,762	179,583	0	27,126	208,471	0
		990	25	0	5	0	61,611	142,341	53,354	257,336	3
		99n	0	0	0	45	455,640	10	88,759	544,454	0
		00o 00n	25 0	0	0	0	123,946	4,387 857	5,069	133,427	0
**]	Hydrazine sulfate	88	NA	NA	NA	NA NA	354,173 NA	NA	11,251 NA	366,281 NA	NA
	riyurazine surrate	95	0	0	0	0	1,900	1,900	260,000	263,800	0
		98o	0	0	0	0	0	0	200,000	200,000	0
		98n	No reports	· ·	Ů	· ·	ľ	· ·	200,000	200,000	
		990	0	0	0	0	0	0	190,000	190,000	0
		99n	No reports			_		_			
		00o	0	0	0	0	0	0	150,000	150,000	0
		00n	No reports						,		
*]	Hydrochloric acid	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	175,282,692	15,821,343	100,650	1,510	1,040,278,263	26,254,655	73,983,418	1,331,722,531	113,940
		98o	85,404,694	2,681,128	190,000	12,782	717,989,784	6,351,885	58,591,214	871,221,487	53,124
		98n	0	0	0	231,145	208,177,658	1,567	554,738,298	763,148,668	120,454
		99o	67,045,072	1,284,131	190,000	16,118	1,482,057,514	8,023,406	54,071,438	1,612,687,679	223,516
		99n	0	0	0	1	211,539,503	41,474	614,961,549	826,542,527	159,042
		00o	108,989,494	3,711,351	5,841,928	4,773	1,586,957,741	9,594,244	54,765,112	1,769,864,643	79,709
		00n	44,000	0	0	0	248,657,958	2,287	592,092,602	840,796,847	158,728

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(comme	,					On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
74-90-8	* Hydrogen cyanide	88 95 980 98n 990 99n	35 51 50 27 47 23	1,109,277 2,481,956 1,456,583 619,565 1,336,949 279,826	2,300 763 308 0 290	1,737,850 683,154 590,597 0 1,433,776	1,761 3 18 112,505 483 1,452	2,851,188 3,165,876 2,047,506 732,070 2,771,498 281,278	1,001 326 2,729 0 1,371	2,852,189 3,166,202 2,050,235 732,070 2,772,869 281,278
7664-39-3	* Hydrogen	000 00n 88	51 16 536	1,376,196 210,951 14,732,294	281 0 189,928	688,362 0 250	60 701 13,002	2,064,899 211,652 14,935,474	2,125 0 3,467,471	2,067,024 211,652 18,402,945
7004-37-3	fluoride	95 980 98n 990 99n 000 00n	577 632 403 633 401 623 409	11,629,135 15,785,580 64,131,145 14,550,550 58,322,750 13,356,714 57,434,142	8,702 23,194 6 16,983 12 22,252 4,206	3,845 0 2,900,000 0 4,100,000 0 4,700,000	24,078 2,940 151,228 4,153 130,120 4,106 128,870	11,665,760 15,811,714 67,182,379 14,571,686 62,552,882 13,383,072 62,267,218	1,020,784 57,141 48,758 31,651 60,094 114,568 48,971	12,686,544 15,868,855 67,231,137 14,603,337 62,612,976 13,497,640 62,316,189
123-31-9	Hydroquinone	88 95 980 98n 990 99n 000 00n	61 64 60 3 60 4 59	10,334 17,706 13,867 0 58,145 505 12,985	7,211 5,093 1,558 0 2,260 0 4,170	375,400 340,005 332,000 15,309 367,000 0 333,200	530 43 0 0 5 0 16,281	393,475 362,847 347,425 15,309 427,410 505 350,355 16,286	6,835 4,406 27,893 0 14,504 2,255 893	400,310 367,253 375,318 15,309 441,914 2,760 351,248 16,286
35554-44-0	* Imazalil	88 95 980 98n 990 99n 000 00n	NR No reports 1 No reports No reports No reports No reports No reports	NR	NR 0	NR 0	NR 0	NR 0	NR 10	NR 10
55406-53-6	* 3-Iodo-2-propynyl butylcarbamate	88 95 980 98n 990 99n 000 00n	NR 11 21 No reports 23 1 26	NR 3,959 3,393 3,145 0 3,362	NR 10 10 10 10 0 10	NR 0 0 0 0 0 0	NR 265 291 286 42,000 264 41,300	NR 4,234 3,694 3,441 42,000 3,636 41,300	NR 12,763 7,352 249,941 0 50,644	NR 16,997 11,046 253,382 42,000 54,280 41,300
13463-40-6	Iron pentacarbonyl	88 95 980 98n 990	NR 1 1 No reports 1	NR 1,530 1,475	NR 0 0	NR 0 0	NR 0 0	NR 1,530 1,475	NR 0 0	NR 1,530 1,475
		99n 00o 00n	No reports No reports	1,283	0	0	4	1,287	4	1,291

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	опиниеи)		Recy	cled	Energy R	Recovery	Т	reated	Quantity	Total	Non Bradus
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
*	Hydrogen cyanide	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	72,134	0	33,141,239	70	25,143,135	10,443	3,141,004	61,508,025	27,155
		98o	57,228	0	24,442,117	0	21,259,696	473	2,044,055	47,803,569	288
		98n 99o	53,473	0	0 27,900,378	0	46,470 19,489,338	2 675	728,565	828,508	0 184
		990 99n	117,205 29,774	0	27,900,378	0	19,489,338	2,675	2,748,851 280,826	50,258,447 412,073	184
		000	73,101	0	49,890,083	0	19,716,833	12,857	2,052,676	71,745,550	13,955
		00n	46,376	0	0	0	104,395	0	211,631	362,402	0
*	Hydrogen fluoride	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	92,491,171	222,387	0	9,201	103,288,917	2,489,236	12,864,175	211,365,087	11,479
		98o	113,216,560	147,393	0	4,910	135,637,199	2,292,670	15,648,252	266,946,984	11,195
		98n	0	8,852	0	0	35,227,444	27,264	67,449,286	102,712,846	1
		99o	121,338,697	140,373	0	1,614	120,059,122	2,380,273	14,674,107	258,594,186	63,468
		99n 00o	0 87,180,067	5,600 1,614,367	0	0 14,120	28,937,660 204,248,236	43,274 1,701,042	62,121,081 13,995,814	91,107,615 308,753,646	70,290
		000 00n	300	7,000	0	14,120	35,510,806	156,708	62,296,412	97,971,226	0
	Hydroguinone	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	>	95	960	0	986,933	37,786	417,185	86,342	363,576	1,892,782	43
		98o	3,200	0	848,845	10,066	405,144	126,922	359,750	1,753,927	0
		98n	0	0	0	0	85,610	0	15,309	100,919	0
		990	1,300	0	927,893	36,525	656,620	157,583	445,098	2,225,019	0
		99n	30,660	0	1,563	13,050	105,812	1,624	326	153,035	10
		00o	1,500 0	0	1,131,108 0	8,615 0	1,327,969	113,661	358,283	2,941,136	0
*	Imazalil	00n 88	NA	0 NA	NA	NA	109,034 NA	652 NA	16,283 NA	125,969 NA	NA
	mazam	95	No reports	11/14	14/4	11/1	11/1	IVA	IVA	11/1	IVA
		98o	0	0	0	0	0	15	0	15	15
		98n	No reports								
		99o	No reports								
		99n	No reports								
		00o	No reports								
*	2 Inda 2 manyaya	00n 88	No reports	NIA	NA	NA	NA	NIA	NA	NA	NA
	3-Iodo-2-propynyl butylcarbamate	95	NA 1,755	NA 2	0	1 NA	300	NA 62,552	5,151	69,761	0
	outylearoamate	98o	30,906	0	400	5,561	334	123,399	6,271	166,871	0
		98n	No reports	, in the second		-,			3,2,1		
		99o	21,705	0	0	974	329	340,696	11,345	375,049	0
		99n	0	0	0	0	0	0	42,000	42,000	0
		00o	118,785	0	0	2,007	322	182,186	22,099	325,399	0
		00n	0	0	0	0	0	0	41,300	41,300	0
	Iron pentacarbonyl	88 95	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 1,379	NA 1,379	NA 0
		95 980	0	0	0	0	0	0	1,379	1,379	0
		98n	No reports	U	U	U		U	1,4/3	1,473	
		990	0	0	0	0	0	0	1,517	1,517	0
		99n	No reports	, i				•	, ,	, , ,	
		00o	0	0	0	0	10,248	0	1,283	11,531	0
		00n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

,						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
78-84-2	Isobutyraldehyde	88 95 980 98n 990 99n 000 00n	15 24 20 2 20 No reports 19 No reports	685,918 256,279 254,460 165 259,971 230,956	773 752 1,182 0 966	60 44,075 0 0	1 47 0 0 0	686,752 301,153 255,642 165 260,937 231,085	0 0 172,233 5 124,062 150,961	686,752 301,153 427,875 170 384,999 382,046
465-73-6 *	Isodrin Not comparable to prior years***	88 95 980 98n 990 99n 000	NR No reports No reports No reports No reports No reports No reports A reports No reports No reports	NR 0.05	NR 0.00	NR 2.95	NR 0.00	NR 3.00	NR 0.00	NR 3.00
25311-71-1 *	Isofenphos	88 95 980 98n 990 99n 000 00n	NR 4 2 No reports 2 No reports No reports No reports	0.03 NR 2,907 10	0.00 NR 0 0	NR 0 0	0.00 NR 9,000 0	3.00 NR 11,907 10 205	NR 11,300 0	NR 23,207 10 205
67-63-0 *	Isopropyl alcohol (manufacturing)	88 95 980 98n 990 99n 000 00n	91 72 68 11 71 8 40	2,001,397 937,246 600,566 2,326 549,812 768 205,064 1,517	1,900 0 250 0 165 0 0	0 0 0 192,117 0 0 0	14 0 0 0 9 0 0 4,120	2,003,311 937,246 600,816 194,443 549,986 768 205,064 5,637	247,039 2,577 16,101 43,548 6,005 88,470 3,474 8,075	2,250,350 939,823 616,917 237,991 555,991 89,238 208,538 13,712
80-05-7	4,4'-Isopropylidenediphenol	88 95 980 98n 990 99n 000 00n	80 114 124 6 121 4 121 5	226,986 155,659 188,260 262 169,797 255 159,619 258	126,385 5,809 7,658 0 4,783 0 6,712	82,000 0 0 0 72 0 217	426,065 86,697 67,097 56,423 3,282 36,740 21,435 19,266	779,436 330,165 263,015 56,685 177,934 36,995 187,983 19,524	444,560 425,671 581,074 99 564,975 424 487,867 424	1,223,996 755,836 844,089 56,784 742,909 37,419 675,850 19,948
120-58-1	Isosafrole	88 95 980 98n 990	NR No reports No reports 1 No reports	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0
		99n 00o 00n	1 No reports 2	2	1	0	0	3	38 0	41 0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

<u>(</u>	опиниеи)		Recy	cled	Energy 1	Recovery	T	reated	0 "	T 4.1	N D I
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
	Isobutyraldehyde	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	9,647	1,193,119	567,515	609,409	76,894	300,129	2,756,713	0
		980	0	48,000	1,509,037	550,059	1,118,885	118,174	429,051	3,773,206	221
		98n 99o	10,188	0 3,800	0 2,902,392	32,119 539,410	15,206 1,180,083	659 36,804	165 403,453	48,149 5,076,130	0
		99n	No reports	5,000	2,702,372	337,110	1,100,003	30,001	103,133	3,070,130	
		00o	11,321	1,200	1,624,049	518,098	1,096,242	78,610	383,591	3,713,111	0
		00n	No reports								
*	Isodrin Not comparable	88 95 980 98n 990 99n 000	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
	to prior years***	00n	0.00	0.00	0.00	0.00	6,603.84	0.00	3.00	6,606.84	0.00
*	Isofenphos	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	690	0	0	0	0	20,300	11,612	32,602	0
		980	2,000	0	0	0	0	114	10	2,124	0
		98n 99o	No reports 20,000	0	0	0	0	0	210	20,210	0
		99n	No reports	U	V	Ů,	V	Ů,	210	20,210	o o
		00o	No reports								
		00n	No reports								
*	Isopropyl alcohol	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	(manufacturing)	95 08-	62,894	48,179	2,684,671	93,871	178,156	232,658	743,206	4,043,635	2
		980 98n	12,955 122,891	146,022 0	3,681,484 0	124,598 925,705	148,574 174,862	63,213 56,137	641,993 193,515	4,818,839 1,473,110	0 0
		990	884,741	32,237	8,862,061	167,896	200,129	15,056	551,156	10,713,276	0
		99n	1,076,491	0	0	824,910	197,271	97,618	768	2,197,058	10
		00o	639,200	21,114	1,280,532	765,385	0	2,740	191,323	2,900,294	10
		00n	197,751	0	0	573,901	0	89,464	504,072	1,365,188	10
	4,4'-Isopropyli-	88	NA 56 240	NA	NA	NA	NA	NA	NA	NA	NA
	denediphenol	95 98o	56,348 104,158	2,377 71,832	5,024,865 9,043,549	28,758 98,999	824,095 1,636,775	127,796 175,248	647,242 843,692	6,711,481 11,974,253	121,310 3,476
		98n	0	0	9,043,349	0	137,341	2,035	56,554	195,930	0,470
		990	229,868	54,608	24,844,350	421,160	576,435	751,791	698,680	27,576,892	3,879
		99n	0	0	0	0	282,439	8,222	36,755	327,416	0
		00o	144,861	53,743	18,345,193	3,328,793	331,849	349,920	623,336	23,177,695	0
		00n	0	0	0	0	359,894	2,662	19,314	381,870	0
	Isosafrole	88 95	NA No sements	NA	NA	NA	NA	NA	NA	NA	NA
		95 980	No reports No reports								
		98n	0	0	0	0	0	0	0	0	0
		99o	No reports			•					
		99n	0	0	0	0	77,000	0	37	77,037	0
		00o	No reports	_			16.001	5 00	_	1,,,,,,	_
		00n	0	0	0	0	16,091	789	0	16,880	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
77501-63-4	*	Lactofen	88 95 980	NR 2 1	NR 787 3	NR 0 0	NR 0 0	NR 0 0	NR 787 3	NR 250 0	NR 1,037 3
			980 98n 990	No reports 2	406	0	0	0	406	9	415
			99n 00o 00n	No reports 2 No reports	290	0	0	0	290	0	290
7439-92-1	**	Lead	88	868	1,128,047	61,776	0	6,648,926	7,838,749	12,276,728	20,115,477
			95	863	730,027	10,645	0	2,367,013	3,107,685	2,552,948	5,660,633
			98o	825	305,563	13,115	8,613	3,266,466	3,593,757	4,849,078	8,442,835
			98n	52	4,832	138	23,068	11,813,624	11,841,662	1,025,994	12,867,656
			99o	812	297,248	8,342	0	1,229,198	1,534,788	3,197,274	4,732,062
			99n	41	4,036	32	13,250	8,383,812	8,401,130	1,388,091	9,789,221
			00o	874	259,233	14,454	2,837	1,063,975	1,340,499	3,734,006	5,074,505
			00n	35	807	125	57,273	9,847,458	9,905,663	1,265,568	11,171,231
	**	Lead compounds	88	736	1,555,082	180,368	2,755	20,035,359	21,773,564	15,929,201	37,702,765
			95	863	1,228,527	55,000	183,912	13,520,058	14,987,497	19,426,191	34,413,688
			980	857	854,421	38,811	171,660	16,462,530	17,527,422	16,227,385	33,754,807
			98n	257	350,036	77,013	7,280,139	239,474,639	247,181,827	6,226,070	253,407,897
			99o 99n	824	872,133	31,804	182,869	16,244,192	17,330,998	17,209,828	34,540,826 279,567,865
			00o	235 821	345,198 912,965	33,806 37,692	7,959,140 212,480	264,104,720 12,412,589	272,442,864 13,575,726	7,125,001 15,559,423	29,135,149
			000 00n	235	312,829	42,818	8,300,251	316,463,290	325,119,188	3,590,580	328,709,767
58-89-9	* **	Lindane	88	3	258	0	0,500,251	0	258	56	314
	,		95	10	510	0	0	0	510	20	530
			98o	10	26	5	0	0	31	3	34
			98n	6	53	0	0	25,654	25,707	126	25,833
			99o	9	15	5	0	0	20	18	38
			99n	5	15	1	0	0	16	351	367
			00o	7	10	5	0	0	15	17	32
			00n	3	2	0	0	0	2	0	2
330-55-2	*	Linuron	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	4	270	5	0	5	280	1,250	1,530
			980	2	1,010	5	0	0	1,015	750	1,765
			98n 99o	1 2	5 1,010	0 5	0	0	5 1,015	0 750	5 1,765
			990 99n	2	1,010	0	0	0	1,015	0	1,703
			000	2	1,010	5	0	0	1,015	750	1,765
			00n	1	0	0	0	0	0	0	0
554-13-2		Lithium	88	NR	NR	NR	NR	NR	NR	NR	NR
		carbonate	95	29	15,824	0	0	0	15,824	601,200	617,024
			98o	43	8,144	250	114	32,284	40,792	292,407	333,199
			98n	No reports				•			
			99o	46	12,013	501	0	250	12,764	192,891	205,655
			99n	1	0	0	0	11,382	11,382	0	11,382
			00o	47	18,672	268	0	0	18,940	189,929	208,869
			00n	1	0	0	0	108,368	108,368	0	108,368

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information). For lead compounds, applies only to inorganic lead compounds.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Rec	ycled	Energy R	Recovery	Т	reated	Oventity	Total	Non Duadua
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
* Lactofen	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	100	0	0	0	0	1	520	621	1,044
	980	0	0	0	0	0	89	3	92	0
	98n 99o	No reports 0	0	0	0	0	156	406	562	0
	99n	No reports	Ŭ	Ŭ	Ŭ	Ŭ	130	100	302	
	00o	0	0	0	0	0	346	290	636	0
	00n	No reports								
** Lead	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	208,823,623	59,583,829	49,836	5,662	1,631,361	1,918,683	4,466,019	276,479,013	19,059
	980 98n	249,087,516 414	37,944,759 32,124	242,740 0	8,259 12,582	1,620,424 0	747,987 135,054	7,453,062 12,999,482	297,104,747 13,179,656	424,937 58
	990	213,586,064	50,889,448	0	2,724	1,704,114	558,496	5,309,004	272,049,850	7,688
	99n	3,747	243,928	0	0	340,717	165,312	9,405,847	10,159,551	10
	00o	191,717,833	38,539,206	13,780	4,580	3,035,013	393,020	5,744,124	239,447,557	270,853
	00n	0	63,805	0	0	15,359	573,018	10,896,129	11,548,311	0
** Lead compounds	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	501,647,569		0	62,073	28,890,703	7,421,363	27,393,712	863,078,661	3,713,904
	980	420,774,644		0	19,326	158,767	3,122,012	42,948,937	763,853,327	1,494,476
	98n	8,460,746 442,481,840	1,461,645	0	22,025	149,746	123,507	254,446,413	264,664,082	62,525
	990 99n	482,481,840	4,640,682	700 0	15,768 0	159,175 424,100	2,507,776 171,163	38,198,706 242,651,781	761,486,969 248,370,376	29,135,559 39,001,909
	000	451,012,242		35	1,795	126,129	3,884,410	38,663,977	736,561,441	2,105,634
	00n	517,702	2,547,849	0	0	422,204	290,020	307,755,779	311,533,554	17,000,057
*,**Lindane	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	326	0	0	0	0	3,206	272	3,804	0
	980	168	0	0	0	0	8,164	126	8,458	0
	98n	0	0	0	100,903	118,134	222	25,833	245,092	0
	990	1,131	0	0	0	0	60	44	1,235	0
	99n 00o	0 225	0	0	0	350,078 0	2,659 47	193 32	352,930 304	0
	000 00n	0	0	0	0	130,575	903	2	131,480	0
* Linuron	88	NA NA	NA	NA	NA	NA	NA	NA NA	NA	NA
	95	0	0	0	1	0	734	797	1,532	0
	98o	25	0	0	0	0	500	550	1,075	0
	98n	0	0	0	2,214	14,516	0	4	16,734	0
	990	25	0	0	0	0	500	550	1,075	0
	99n	0	0	0	0	33,900	699	3	34,602	0
	00o 00n	25 0	0	0	0	0 17,951	500	530 0	1,055 17,951	0
Lithium carbonate		NA	NA	NA	NA	17,931 NA	NA	NA	17,931 NA	0 NA
Lianum caroonate	95	18,000	0	0	0	2,200	690	169,247	190,137	446,000
	980	48,373	0	0	0	1,400	3,266	301,392	354,431	0
	98n	No reports					,			
	990	94,352	0	0	0	5,258	3,109	204,549	307,268	16
	99n	0	0	0	0	0	0	11,382	11,382	0
	00o	28,887	0	0	0	10,098	4,661	205,752	249,398	0
	00n	0	0	0	0	0	0	108,368	108,368	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information). For lead compounds, applies only to inorganic lead compounds.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

						On-site Releases	3		Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
121-75-5 *	Malathion	88 95 980 98n 990 99n	NR 21 17 6 17 3	NR 2,512 2,017 10 5,097	NR 0 255 0 5	NR 0 0 0 0	NR 0 0 20,222 0 0	NR 2,512 2,272 20,232 5,102	NR 31 1,004 159 38 0	NR 2,543 3,276 20,391 5,140
108-31-6	Maleic anhydride	00o 00n 88	18 3 199	3,903 1 676,778	5 5 12,580	0 0 240,000	0 0 250	3,908 6 929,608	268 0 132,148	4,176 6 1,061,756
		95 980 98n 990 99n 000 00n	211 210 8 208 9 207 6	347,371 357,365 35 378,637 161 232,023 38	18 11 0 5 1 5	5 0 0 0 0 6	1,406 4,430 150,000 4,449 62,000 299	348,800 361,806 150,035 383,091 62,162 232,333 38	14,429 35,131 10 5,555 431 42,670 250	363,229 396,937 150,045 388,646 62,593 275,003 288
109-77-3	Malononitrile	88 95 980 98n 990 99n 000 00n	NR 2 4 1 2 3 1 1 3	NR 0 510 0 10 7 0	NR 0 0 0 5 1 0	NR 432,956 111,100 0 150,985 0 255,157	NR 0 0 0 5 0 0	NR 432,956 111,610 0 151,005 8 255,157	NR 0 0 0 0 163 0	NR 432,956 111,610 0 151,005 171 255,157
12427-38-2 *	Maneb	88 95 980 98n 990 99n 000 00n	6 6 7 No reports 6 No reports 4	2,265 273 5 0	250 0 0 0	0 0 0 0	0 0 0 0	2,515 273 5 0	5,285 2,461 2,288 0 250	7,800 2,734 2,293 0 260
7439-96-5	Manganese	88 95 980 98n 990 99n 000 00n	958 1,624 1,862 61 1,898 51 1,865	1,587,192 779,726 1,204,779 24,751 1,168,808 12,131 920,401 13,072	321,993 117,880 261,482 147,150 137,915 140,505 186,789 160,460	255 17 3 0 5 0 0 2,600	20,229,826 8,342,942 10,139,533 10,771,082 9,851,153 8,207,827 6,117,569 8,470,338	22,139,266 9,240,565 11,605,797 10,942,983 11,157,881 8,360,463 7,224,759 8,646,470	20,087,660 13,143,606 14,351,253 1,055,515 12,254,951 999,489 11,436,510 412,756	42,226,926 22,384,171 25,957,050 11,998,498 23,412,832 9,359,952 18,661,269 9,059,226
-	Manganese compounds	88 95 980 98n 990 99n 000 00n	546 1,065 1,267 377 1,304 389 1,374 396	1,801,453 2,927,397 1,614,013 538,136 1,895,567 578,299 1,673,484 541,326	681,469 1,655,430 4,578,108 1,015,935 4,913,081 545,648 5,078,261 618,142	6,816,070 10,403,590 7,762,910 858,700 7,011,627 1,186,500 9,514,046 1,315,100	84,227,842 41,142,063 58,141,059 453,355,780 55,409,089 361,258,366 55,940,341 352,857,364	72,206,132	20,670,928 28,830,924 41,000,915 7,713,285 36,858,953 8,231,944 44,554,746 7,849,599	114,197,762 84,959,404 113,097,005 463,481,836 106,088,317 371,800,757 116,760,878 363,181,531

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

10	опшнией)		Rec	ycled	Energy R	Recovery	Т	reated	0	T-4-1	Non Burden
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
*	Malathion	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	197	0	0	0	0	819	1,073	2,089	0
		980 98n	1,187 0	0	0	0	0 180,176	1,841 0	1,649 20,390	4,677 200,566	0
		990	418	0	0	0	0	4,118	4,628	9,164	0
		99n	0	97	0	0	240,221	0	1	240,319	0
		00o	215	0	0	0	0	2,882	3,890	6,987	0
		00n	0	0	0	68,367	160,786	68,656	2	297,811	0
	Maleic anhydride	88	NA	NA 242	NA	NA	NA	NA	NA	NA	NA
		95 98o	4,940 7,607	242 250	3,222,121 3,857,500	102,238 163,967	38,356,328 50,635,701	1,154,869 1,404,589	355,050 387,975	43,195,788 56,457,589	22,336 12,599
		98n	0,007	0	0	55,466	79,450	0	150,041	284,957	0
		99o	4,507	272	2,724,748	101,555	43,347,407	1,426,535	376,539	47,981,563	1,527
		99n	0	0	0	222,133	456,582	37,000	62,368	778,083	0
		00o	5,907	0	5,226,962	84,839	37,680,577	862,066	268,916	44,129,267	796
	Malononitrile	00n 88	0 NA	0 NA	0 NA	319,620 NA	164,554 NA	793 NA	80 NA	485,047 NA	0 NA
	Maiononitrile	88 95	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 432,956	432,956	0 NA
		98o	0	0	0	0	336,000	0	111,214	447,214	0
		98n	0	0	0	0	0	0	0	0	0
		99o	0	0	0	0	22,000	0	151,009	173,009	0
		99n	0	0	0	0	191,547	0	166	191,713	0
		00o	0	0	0	0	0	0	255,157	255,157	0
*	Maneb	00n 88	0 NA	0 NA	0 NA	0 NA	104,381 NA	782 NA	0 NA	105,163 NA	0 NA
	Manco	95	525	0	0	3	0	8,800	7,861	17,189	0
		98o	35	0	0	0	0	8,521	2,058	10,614	0
		98n	No reports								
		99o	0	0	0	0	0	10,113	2,853	12,966	0
		99n	No reports	0		0		2.006		2.157	
		00o 00n	0	0	0	0	60 93,403	2,096 0	1 0	2,157 93,403	0 0
	Manganese	88	NA	NA	NA	NA	93,403 NA	NA NA	NA	93,403 NA	NA NA
	111ungunese	95	30,253,675	74,174,762	0	141	173,579	1,907,753	21,520,319	128,030,229	591
		98o	39,084,726	51,725,843	0	543	531,898	903,937	24,011,707	116,258,654	623,751
		98n	960	171,563	0	0	113,857	0	11,998,782	12,285,162	0
		99o	42,774,116	69,300,440	0	1	152,666	542,243	22,408,216	135,177,682	18,809,964
		99n	330	179,140	0	0 25	49,506	0 423,098	9,357,057	9,586,033	0 818
		00o 00n	42,254,442 0	67,902,661 137,483	0	0	101,522 540	423,098	16,718,791 9,046,954	127,400,539 9,184,977	211,091
	Manganese	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	compounds	95	146,216,939	88,053,869	0	199,783	1,021,862	5,856,439	78,881,791	320,230,683	1,350,500
		98o	17,327,651	48,063,300	22,153	35,980	1,915,470	5,355,141	119,452,848	192,172,543	332,327
		98n	88,853	108,315	0	0	3,909	73,171	462,804,513	463,078,761	70,900
		990 00n	18,812,905	45,540,625	2,876	58,511	1,534,943	1,369,889	111,504,664	178,824,413	158,128
		99n 00o	769,291 43,631,624	758,200 48,757,736	0 776	0 51,636	15,186 3,599,200	83,200 1,281,525	324,845,943 120,658,803	326,471,820 217,981,300	47,000,000 161,669
		00n	619,231	768,087	0	0	82,973	78,990	343,770,894	345,320,175	20,000,001
		0011	017,231	, 00,007		•	02,573	, 0,,,,0	2 .5,7,70,071	0,020,170	20,000,001

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

							On-site Releases	5		Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
93-65-2	**	Mecoprop	88 95	NR	NR	NR	NR	NR	NR	NR 2 204	NR
			95 980	9 10	1,816 1,150	0	0	0 250	1,816 1,400	2,304 3,968	4,120 5,368
			98n	No reports	1,130	Ŭ	· ·	250	1,100	3,700	3,300
			99o	12	1,123	0	0	250	1,373	2,368	3,741
			99n	1	2 659	0	0	0	2	1 112	66
			00o 00n	No reports	039	U	U	250	909	1,113	2,022
149-30-4	*	2-Mercaptobenzo-		NR	NR	NR	NR	NR	NR	NR	NR
		thiazole	95	28	34,857	5	97,000	260	132,122	376,420	508,542
			98o	38	5,792	100,823	45,000	250	151,865	146,951	298,816
			98n	1	0	0	0	250,000	250,000	0	250,000
			99o 99n	35 1	5,696 0	66,893 0	37,000 0	0 176,304	109,589 176,304	140,100 0	249,689 176,304
			00o	31	4,340	35,288	10,000	0	49.628	223,095	272,723
			00n	1	0	0	0	166,126	166,126	0	166,126
7439-97-6	*	Mercury	88	37	22,905	1,397	0	13,279	37,581	258,718	296,299
			95	24	13,262	192	0	1,016	14,470	14,228	28,698
			98o	24	12,591	134	0	3,069	15,794	14,827	30,621
			98n 99o	11 33	9,416 11,275	0 133	0	236,003 2,419	245,419 13,827	14,419 6,575	259,838 20,402
			99n	15	9,426	0	0	98,316	107,742	14,957	122,699
		Not comparable	00o	424	23,509.56	162.34	258.70	5,223.62	29,154.23	20,505.89	49,660.12
		to prior years***	00n	142	6,323.57	229.96	1,118.00	33,221.56	40,893.09	3,984.39	44,877.48
		Mercury	88	15	2,376	9	27	0	2,412	17,916	20,328
		compounds	95 98o	10	3,156	136 34	6	2.550	3,298 4,956	207,097 19,848	210,395 24,804
			980 98n	11 11	2,372 4,870	22	0	2,550 8,969,110	8,974,002	72,802	9,046,804
			990	13	2,110	36	0	5,700	7,846	53,046	60,892
			99n	17	3,397	9	0	2,968,271	2,971,677	89,129	3,060,806
		Not comparable	00o	467	31,247.20	579.84	76.52	13,666.01	45,569.58	93,779.94	139,349.51
150 50 5	-1-	to prior years***	00n	563	103,412.20	1,330.13			3,351,172.93	731,602.10	4,082,775.03
150-50-5	*	Merphos	88 95	NR 1	NR 186	NR 0	NR 0	NR 0	NR 186	NR 0	NR 186
			98o	1	0	0	0	0	0	0	0
			98n	No reports		· ·	· ·	Ŭ			Ü
			99o	1	0	13	0	0	13	0	13
			99n	No reports							
			00o	2	0	4	0	0	4	270	274
126-98-7		Methacrylonitrile	00n 88	No reports NR	NR	NR	NR	NR	NR	NR	NR
120-70-/		iviculaci y loniune	95	6	945	0	606,939	0	607,884	0	607,884
			98o	6	900	0	107,076	0	107,976	0	107,976
			98n	2	800	0	0	0	800	0	800
			99o	6	950	0	102,418	0	103,368	0	103,368
			99n	3	112	1	50.200	22,932	23,045	12,387	35,432
			00o 00n	6	989 2	0	59,399 0	0	60,388	0	60,388 2
			UUII	4	2	0	0	0	2	U	

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recy	ycled	Energy 1	Recovery	Tı	reated	Quantity	Total	Non-Produc-
Chemical	Yea	r On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Released On-and Off-site Pounds	Production- related Waste Managed Pounds	tion-reduc- tion-related Waste Managed Pounds
* Mecoprop	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	15,614	0	0	0	940	1,037	3,659	21,250	0
	980		0	0	1,000	500	451	4,887	7,710	0
	98r	1	0	0	0	440	(22	2 507	7.270	0
	99c 99r		0	0	0	440 11,879	632	3,587 67	7,270 11,946	0
	00c		0	0	0	160	5,348	1,869	12,556	0
	00n		Ŭ		Ü	100	3,3 10	1,009	12,550	
2-Mercaptol		NA	NA	NA	NA	NA	NA	NA	NA	NA
thiazole	95	5,405	104,645	0	931,100	128,323	136,948	516,905	1,823,326	630
	980		8,475	0	800,961	513,059	76,774	298,521	1,699,570	0
	98n		0	0	0	0	0	250,000	250,000	0
	99c		50,116	0	601,890	527,221	11,170	255,458	1,653,705	0
	99n		0	0	200.259	506.624	0 247	176,304	176,304	0
	00c 00n		41,684 0	0	300,358 0	596,634 0	9,247 0	276,751 166,126	1,690,264 166,126	0
Mercury	88	NA NA	NA	NA	NA	NA NA	NA	NA	NA	NA NA
111010017	95	413,832	58,151	0	0	6,307	11,009	17,996	507,295	0
	980		34,068	0	0	4,315	1,165	20,609	515,786	0
	98r	0	3,706	0	0	0	0	260,437	264,143	0
	990		37,684	0	0	4,021	5,495	18,724	537,497	10
	99n		4,888	0	0	0	0	122,295	127,183	0
Not compa			54,944.08	67.73	55.01	11.23	3,131.69	45,697.84	401,933.60	4,305.71
to prior yea			9,768.91 NA	0.00 NA	14.00 NA	354.30	2,203.07	42,259.25 NA	58,256.38 NA	598.00 NA
Mercury compounds	88 95	NA 125,287	0	0	61	NA 0	NA 4,597	25,638	155,583	179,000
compounds	980		5	0	0	0	5,411	18,413	596,855	860
	98n		114,138	0	0	0	236	9,046,364	9,226,138	0
	990		2,789	0	0	0	187	57,982	451,373	2,400
	99n	43,155	87,463	0	0	0	550	3,042,245	3,173,413	15,000
Not compa		/	5,115.82	10.00	33.00	780.51	427.74	149,363.95	444,470.50	7,238.16
to prior yea			92,100.66	0.00	24.00	18,622.24	102.10	3,803,836.64	3,971,203.34	6,002.01
Merphos	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95 98c	0 0	0	0	0	0	0	186 0	186 0	0
	98r		U	U	U	U	U	U	0	0
	990		0	0	0	155	12	13	180	0
	99n		_	Ť	_					
	000	*	0	0	0	185	274	4	463	0
	00n	No reports								
Methacrylor		NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	3,189	0	607,884	611,073	0
	980		0	0	1 001 240	500	0	107,976	108,476	0
	98n 99c		0	0	1,891,340	0 320	0	102 268	1,892,140 103,688	0
	990 99n		0	0	0	73,099	0	103,368 35,431	103,688	0
	991 00c		0	0	0	73,099 480	0	60,343	60,823	45
	00n		0	0	0	49,252	804	2	50,058	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commac						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
137-42-8	* Metham sodium	88 95 980 98n 990 99n 000 00n	NR 11 9 2 9 1 9	NR 4,387 5,714 824 6,357 3,627 5,046 4,316	NR 1 40 0 40 0 40 0	NR 0 0 0 0 0	NR 252 110 22,248 110 0 0	NR 4,640 5,864 23,072 6,507 3,627 5,086 4,316	NR 13,050 800 0 220 0 15	NR 17,690 6,664 23,072 6,727 3,627 5,101 4,316
67-56-1	* Methanol	88 95 980 98n 990 99n 000 00n	2,507 2,489 2,250 373 2,179 360 2,161 357	259,691,589 217,631,997 189,068,038 945,322 185,159,387 948,407 182,267,111 909,115	17,139,114 9,223,362 5,783,765 5,144 3,841,425 8,905 3,744,637 9,294	26,587,686 27,738,543 16,681,250 1,125,538 14,190,039 1,992,807 14,348,673 4,004,559	11,911,136 1,776,256 1,800,649 605,659	315,329,525 256,370,158 213,333,702 2,681,663 204,439,797 3,657,156 201,777,346 5,334,255	15,290,643 2,004,802 914,296 93,260 1,370,499 115,253 1,171,531 283,215	330,620,168 258,374,960 214,247,998 2,774,923 205,810,296 3,772,409 202,948,877 5,617,470
20354-26-1	* Methazole	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
2032-65-7	* Methiocarb	88 95 980 98n 990 99n 000 00n	NR No reports 2 No reports 1 No reports No reports No reports	NR 0 0	NR 0 0	NR 0 0	NR 0 0	NR 0 0	NR 0 0	NR 0 0
94-74-6	*,** Methoxone	88 95 980 98n 990 99n 000 00n	NR 5 6 No reports 5 2 5 1	NR 1,261 1,255 780 2 758 0	NR 0 0 0 0 0 0	NR 0 0 0 0 0 0	NR 0 250 250 0 250 0	NR 1,261 1,505 1,030 2 1,008	NR 1,810 3,749 2,887 314 863 32	NR 3,071 5,254 3,917 316 1,871 32
3653-48-3	*,** Methoxone, sodium salt	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commueu)		Recy	vcled	Energy	Recovery	r	Freated	Quantity	Total	Non Duoduo
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
* Metham sodium	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	33,520	0	0	0	102	362	15,378	49,362	0
	980 98n	100 0	0	0	0	355 0	3,324	6,354 24,392	10,133 24,392	1,000
	990	100	0	0	0	748	10,472	6,866	18,186	100
	99n	9,000	0	0	0	0	5,970	3,600	18,570	0
	00o	0	0	0	843	1,190	8,911	5,335	16,279	40
	00n	0	0	0	0	0	0	4,316	4,316	0
* Methanol	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	441,801,827	28,205,153	376,980,271	94,117,696	955,830,551	120,190,641	262,695,641	2,279,821,780	295,055
	980 98n	620,599,834 3,745,955	12,873,649 130,289	299,298,472 8,256,769	96,297,134 33,838,262	1,064,500,943 15,712,702	125,970,938 2,607,799	215,450,270 2,872,728	2,434,991,240 67,164,504	110,144 1,902
	990	621,966,461	23,822,897		103,124,011		116,980,718	207,378,840	2,575,963,032	189,736
	99n	3,938,198	33,549	5,534,648	21,948,890	17,700,880	2,398,376	3,689,138	55,243,679	5,713
	00o	645,077,629	19,376,706	373,719,996		1,194,367,447	128,894,338	210,004,153	2,694,623,118	177,937
	00n	4,866,471	24,454	214,120	24,251,263	17,754,199	2,810,665	5,516,191	55,437,363	81,027
* Methazole	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	No reports								
	980 98n	No reports No reports								
	990	No reports								
	99n	No reports								
	00o	No reports								
	00n	No reports								
* Methiocarb	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	No reports	0	0	0	0	0	0	0	0
	980 98n	0 No reports	0	0	U	0	0	U	0	0
	990	0	0	0	0	0	0	0	0	0
	99n	No reports	-	_	-		_	_		
	00o	No reports								
	00n	No reports								
*,**Methoxone	88	NA	NA	NA	NA	NA	NA 27	NA 2 144	NA	NA
	95 98o	19,510 6,670	0	0	0	58 0	27 1,301	3,144 5,417	22,739 13,388	0
	98n	No reports	O	0	U	U	1,501	3,417	13,366	U
	990	1,092	0	0	0	0	723	4,226	6,041	0
	99n	0	0	0	0	110,530	0	97	110,627	0
	00o	3,007	0	0	0	0	4,208	2,248	9,463	0
de dedo a se of	00n	0	0	0	0	90,180	0	32	90,212	0
*,** Methoxone, sodium salt	88 95	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
Soutuiti Sait	93 980	No reports No reports								
	980 98n	No reports								
	990	No reports								
	99n	No reports								
	00o	No reports								
	00n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	,					On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
72-43-5	* Methoxychlor	88	12	131,031	252	0	258	131,541	8	131,549
		95	2	0	0	0	0	0	0	0
		98o	4	0	0	0	0	0	0	0
		98n	4	12	0	0	25,474	25,486	0	25,486
		990	5	0	0	0	0	0	0	0
	37 / 11	99n	3	29	0	0	0	29	14	43
	Not comparable	00o	6	36.00	0.00	0.00	0.00	36.00	1.60	37.60
100.96.4	to prior years*** * 2-Methoxyethanol	00n	14	23.83	0.00	0.00	2,569.00	2,592.83	30.15	2,622.98
109-86-4	* 2-Methoxyethanol	88 95	95 48	5,899,669 898,128	40,520 12,407	750 0	7 5	5,940,946 910,540	57,362	5,998,308 911,076
		980	52	1,019,820	16,882	0	400	1,037,102	536 84	1,037,186
		98n	14	329	0	51,963	0	52,292	884	53,176
		990	41	972,349	20,648	0	17,098	1,010,095	16,545	1,026,640
		99n	14	121	20,040	0	56,000	56,122	889	57,011
		00o	40	886,226	22,286	0	400	908,912	61,795	970,707
		00n	9	11	0	0	17,841	17,852	120	17,972
96-33-3	Methyl acrylate	88	61	443,496	1,687	200	30,260	475,643	4,765	480,408
	, ,	95	71	335,178	5,962	159	0	341,299	865	342,164
		98o	64	246,310	761	53,244	0	300,315	50,575	350,890
		98n	8	24,273	0	0	14,000	38,273	3,680	41,953
		99o	63	303,175	624	51,742	267	355,808	28,796	384,604
		99n	4	2,216	0	0	0	2,216	498,922	501,138
		00o	63	317,505	294	13,670	0	331,469	26,857	358,326
		00n	4	2,773	0	0	0	2,773	0	2,773
1634-04-4	Methyl tert-butyl	88	90	2,588,247	21,499	14,400	370	2,624,516	4,602	2,629,118
	ether	95	185	3,300,759	78,555	15,238	3,800	3,398,352	47,841	3,446,193
		98o	209	2,656,910	60,650	47,357	325	2,765,242	216,391	2,981,633
		98n	329	1,555,782	7,197	250	2,884	1,566,113	46,503	1,612,616
		990	189	2,469,175	118,824	20,477	5,586	2,614,062	235,645	2,849,707
		99n 00o	302 190	1,301,043 2,323,996	2,388 118,447	21 226	1,020	1,304,451	22,642 1,587	1,327,093
		000 00n	277	1,129,687	5,581	31,236 0	8,311 2,245	2,481,990 1,137,513	30,416	2,483,577 1,167,929
79-22-1	Methyl chloro-	88	NR	NR	NR	NR	NR	NR	NR	NR
17-22-1	carbonate	95	4	2,895	5	0	5	2,905	0	2,905
	euro oriune	980	4	2,352	5	0	5	2,362	0	2,362
		98n	1	0	0	0	0	0	0	0
		990	4	3,203	5	0	5	3,213	0	3,213
		99n	3	31	1	0	0	32	162	194
		00o	5	2,743	5	0	5	2,753	0	2,753
		00n	3	0	0	0	0	0	0	0
101-14-4	** 4,4'-Methylenebis	88	8	250	0	0	0	250	0	250
	(2-chloroaniline)	95	23	260	0	0	0	260	5	265
		980	23	20	0	0	0	20	0	20
		98n	. 1	0	0	0	0	0	0	0
		99o	17	10	0	0	0	10	0	10
		99n	3	30	1	0	8,189	8,220	4,419	12,639
		000	20	15	0	0	0	15	0	15
		00n	3	0	0	0	26,154	26,154	0	26,154

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recy	cled	Energy l	Recovery	T	reated	Quantity	Total	Non-Produc-
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Released On-and Off-site Pounds	Production- related Waste Managed Pounds	tion-related Waste Managed Pounds
Methoxychlor	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	0	0	0	C
	980	0	0	0	0	0	0	0	0	(
	98n	0	0	0	0	30,194	0	25,486	55,680	(
	99o 99n	0	0	0	0	0	0	0	206.465	(
Not comparable	99n 00o	0.00	0.00	225.00	0.00	206,422 0.00	15.60	43 40.81	206,465 281.41	0.0
to prior years***	000 00n	0.00	0.00	0.00	755.00	290,474.16	416.00	2,641.83	294,286.99	0.00
2-Methoxyethanol	88	NA	NA	NA	733.00 NA	290,474.10 NA	410.00 NA	2,041.83 NA	294,280.99 NA	NA
2 Wiemoxyemanor	95	3,925,200	74,000	240,658	1,885,948	3,357,857	1,228,013	904,103	11,615,779	720
	98o	279,700	151,007	742,247	1,764,385	3,343,057	499,209	1,093,500	7,873,105	402
	98n	137	0	0	1,275,726	150,702	0	53,249	1,479,814	
	99o	710,480	200,000	1,236,963	510,648	3,591,280	496,600	1,019,189	7,765,160	(
	99n	573	0	0	34,972	254,416	0	57,116	347,077	(
	00o	940,000	100,000	1,341,175	573,592	3,482,838	438,169	899,672	7,775,446	423
	00n	0	0	0	0	182,572	0	17,975	200,547	(
Methyl acrylate	88	NA	NA	NA	NA	NA	NA	NA	NA	N.A
	95	910,001	40,769	736,924	249,260	2,132,688	51,535	346,087	4,467,264	248
	98o	1,067,301	0	702,681	458,653	3,323,941	75,468	422,545	6,050,589	
	98n	0	0	0	291,314	88,974	163	18,343	398,794	25,180
	99o	942,001	140	545,151	648,816	2,397,322	232,427	380,856	5,146,713	400.00
	99n	0	0	0	6,441	43,108	38	2,201	51,788	498,92
	000	938,941 0	70 0	558,435 0	644,930	1,937,130 622	98,691	352,765	4,530,962	(
Methyl tert-butyl	00n 88	NA	NA	NA	129,127 NA	NA	18 NA	8,490 NA	138,257 NA	N/
ether	95	847,069	32,815	228,033	1,360,313	3,020,968	522,838	3,430,405	9,442,441	117,51
Ctrici	98o	2,207,480	170,245	1,798,255	3,330,091	6,340,851	1,233,832	3,016,593	18,097,347	1,76
	98n	2,462,506	1,800,430	0	188,044	2,628,152	193,278	3,424,465	10,696,875	32,71
	990	2,998,495	682	2,063,051	3,391,282	17,686,628	1,081,736	2,586,765	29,808,639	297,862
	99n	5,250,530	135,600	5,519	1,091,655	3,515,274	208,528	1,266,848	11,473,954	5,583
	00o	2,553,355	214	3,791,486	4,754,760	13,469,302	1,023,899	2,621,822	28,214,838	2,438
	00n	3,472,890	323,252	9,573	1,123,997	3,195,197	313,229	1,303,846	9,741,984	8,270
Methyl chloro-	88	NA	NA	NA	NA	NA	NA	NA	NA	N.A
carbonate	95	0	0	0	0	3,610	0	2,897	6,507	(
	980	0	0	0	0	51,910	0	3,030	54,940	(
	98n	0	0	0	0	0	0	0	0	
	990	0	0	0	0	39,801	0	3,023	42,824	
	99n	0	0	0	0	173,861	0	190	174,051	(
	00o	0	0	0	0	29,196	0	3,083	32,279	
* 4.4'-Methylenehic	00n	0	0 N A	0	0	106,300	781	0 N A	107,081	NI/
* 4,4'-Methylenebis (2-chloroaniline)	88 95	NA 720	NA 0	NA 0	NA 1,872	NA 36	NA 10,345	NA 37	NA 13,010	NA (
(2-cinordaminic)	93 980	0	0	0	4,169	0	9,787	10	13,966	
	980 98n	0	0	0	4,109	0	9,787	0	13,966	
	990	0	0	0	2,997	0	9,305	6	12,308	
	99n	0	0	0	2,997	133,212	9,303	12,635	145,847	
	00o	0	0	0	8,910	0	5,608	9	14,527	
	00n	0	0	0	0,510	16,117	790	26,154	43,061	(

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
101-61-1	**	4,4'-Methylenebis (N,N-dimethyl) benzenamine	88 95 980	1 2 1	250 10 0	0 0 0	0 0 0	7,000 0 0	7,250 10 0	1,150 0 0	8,400 10 0
		оспаснание	98n 99o	No reports	0	0	0	0	0	0	0
			99n 00o 00n	No reports No reports	0	0	0	0	0	0	0
74-95-3		Methylene	88	9	57,723	0	0	0	57,723	0	57,723
		bromide	95	5	63,091	0	0	0	63,091	0	63,091
			98o	5	46,153	0	0	0	46,153	0	46,153
			98n	3	160	0	0	0	160	0	160
			990	3	12,352	0	0	0	12,352	29	12,381
			99n	1	15	1	0	0	16	7	23
			00o	3	4,334	0	0	0	4,334	32,851	37,185
101-77-9	**	4,4'-Methylene-	00n 88	21	1 130,265	2,599	460,250	1 140	594,254	0 141,538	735,792
101-77-9		dianiline	95	31 25	130,263	63	23,110	1,140 0	33,510	9,423	42,933
		diamine	93 980	25	9,073	5,041	51,200	0	65,314	6,867	72,181
			98n	1	0,075	0	0	0	03,314	0,007	0
			990	23	9,199	4,248	33,000	8	46,455	31,768	78,223
			99n	1	0	0	0	0	0	0	0
			00o	23	12,908	296	30,000	8	43,212	6,550	49,762
			00n	No reports							
78-93-3	*	Methyl ethyl	88	2,534	141,566,241	92,216	255,955	166,688	142,081,100	5,014,726	147,095,826
		ketone	95	2,324	70,338,506	65,787	581,632	172,000	71,157,925	286,984	71,444,909
			980	1,915	46,632,516	55,937	343,418	118,304	47,150,175	844,254	47,994,429
			98n	290	220,956	7	52,251	130	273,344	215,048	488,392
			99o	1,761	38,446,895	35,309	426,252	94,297	39,002,753	787,150	39,789,903
			99n 00o	279 1,684	186,797 33,840,908	15 40,413	65,858 200,492	168,607 30,062	421,277 34,111,875	647,992 863,107	1,069,269 34,974,982
			000 00n	281	210,981	280	66,757	88,604	366,622	178,426	54,974,982 545,048
60-34-4		Methyl hydrazine	88	3	2,927	1	00,737	00,004	2,928	1,450	4,378
00 5		1110111911119 111111110	95	3	500	0	0	0	500	0	500
			98o	3	265	0	0	0	265	0	265
			98n	No reports							
			99o	4	401	0	0	0	401	0	401
			99n	2	6	0	0	0	6	195	201
			00o	2	283	0	0	0	283	0	283
74 00 4		Made 1: 111	00n	1	0	0	0	0	0 100	0	0 440
74-88-4		Methyl iodide	88 95	3 6	8,944 21,618	5	250 10,000	0	9,199 31,618	250 8,600	9,449 40,218
			93 980	10	65,167	45	131	1,357	66,700	329	67,029
			980 98n	2	05,107	0	0	0	00,700	0	07,029
			990	10	67,682	7	24	742	68,455	0	68,455
			99n	3	215	1	0	17,745	17,961	9,575	27,536
			00o	11	71,661	22	8	1,002	72,693	64	72,757
			00n	3	1	0	0	0	1	0	1

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recy	ycled	Energy	Recovery	Т	reated	0	T-4-1	N D d
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
** 4,4'-Methylen		NA	NA	NA	NA	NA	NA	NA	NA	NA
(N,N-dimethy	1	0	0	0	0	0	0	10	10	0
benzenamine	980	0	0	0	0	0	0	0	0	0
	98n 99o	No reports	0	0	0	0	0	0	0	0
	99n	No reports	U	U	O	U	U	U	U	0
	00o	0	0	0	0	0	0	0	0	0
	00n	No reports								
Methylene bro		NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	677,059	0	0	0	51,903	979	62,284	792,225	0
	98o 98n	1,500,000 0	0	0	64.300	0 354,774	0	46,135 160	1,546,135	0
	990	40	0	0	64,300 0	334,774	0	12,348	419,234 12,388	0
	99n	0	0	0	0	37,000	0	12,548	37,019	0
	00o	44	0	0	0	0	0	37,542	37,586	0
	00n	0	0	0	0	17,354	772	1	18,127	0
** 4,4'-Methylen		NA	NA	NA	NA	NA	NA	NA	NA	NA
dianiline	95	2,300	0	17,801	17,405	87,919	94,872	35,337	255,634	7
	980	2,830	0	311,271	11,793	407,691	56,581	66,591	856,757	1
	98n 99o	6,205	0	0 45,995	0 4,157	11,263 263,766	0 99,971	0 48,589	11,263 468,683	0 8
	99n	0,203	0	45,995	0	12,386	0	0	12,386	0
	00o	9,920	0	30,467	1,199	17,499	66,871	48,429	174,385	0
	00n	No reports		,	,	, , , ,		,	, ,,	
* Methyl ethyl	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
ketone	95	67,669,904	21,177,044	113,046,749	43,718,933	71,396,549	6,679,130	70,242,299	393,930,608	229,484
	98o	56,948,988	19,621,764	80,938,625	33,531,589	81,284,243	7,965,722	48,521,195	328,812,126	169,325
	98n 99o	16,591,003 51,863,856	1,888,930 16,726,368	119,057 96,040,537	41,289,795 32,583,425	5,164,871 83,263,280	5,038,845 9,534,964	323,245 39,684,496	70,415,746 329,696,926	12,252 436,801
	990 99n	17,769,041	7,263	140,361	32,941,917	7,182,256	6,722,176	477,213	65,240,227	39,420
	00o	48,587,686	15,752,866	98,965,210	33,096,101	76,044,033	7,375,725	34,880,922	314,702,543	118,251
	00n	16,345,116	34,627	242,860	34,494,261	9,399,249	4,965,999	1,761,195	67,243,307	1,688
Methyl hydraz		NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	20	5	400	425	0
	980	0	0	0	0	6,508	192	370	7,070	0
	98n 99o	No reports	0	0	0	3,405	5,967	506	9,878	0
	990 99n	0	0	0	0	127,742	0,907	201	127,943	0
	00o	0	0	0	0	1,478	4,345	388	6,211	0
	00n	0	0	0	0	73,146	0	0	73,146	0
Methyl iodide		NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	140	0	19,376	760	40,187	60,463	59
	980	0	0	0	0	184,842	31,143	66,328	282,313	420
	98n 99o	0	0	0 4,300	0	0 24,001	0 358	0 68,906	97,565	0
	990 99n	0	0	4,300	0	118,249	0	27,535	145,784	0
	000	50	0	4,900	0	16,514	64,927	71,591	157,982	99
	00n	0	0	0	0	32,177	781	1	32,959	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
108-10-1	*	Methyl isobutyl ketone	88 95 980 98n 990 99n	1,012 1,033 836 208 791 211	32,035,833 22,081,485 15,031,324 33,691 14,331,744 32,938	762,108 51,292 17,655 0 19,591	116,650 158,600 75,950 250 79,800	31,770 7,041 13,846 45 21,724 26,815	32,946,361 22,298,418 15,138,775 33,986 14,452,859 59,754	1,966,488 88,607 165,515 37,568 170,427 66,557	34,912,849 22,387,025 15,304,290 71,554 14,623,286 126,311
624-83-9		Methyl isocyanate	00o 00n 88	771 196 12	12,708,055 40,162 10,235	32,747 252 0	78,900 5 0	18,162 45,097 64	12,837,864 85,516 10,299	61,814 65,421 8,400	12,899,678 150,937 18,699
			95 980 98n 990 99n 000 00n	6 6 No reports 4 2 5	1,658 507 438 4 669 0	0 0 0 0 0	0 0 0 0	0 5 1 0 0	1,658 512 439 4 669 0	0 0 153 0	1,658 512 439 157 669 0
556-61-6	*	Methyl isothio- cyanate	88 95 980 98n 990 99n 000	NR 2 3 No reports 3 No reports	NR 1,586 1,359 1,091	NR 0 0	NR 0 0 0	NR 0 0	NR 1,586 1,359 1,091	NR 0 0	NR 1,586 1,359 1,091
75-86-5		2-Methyllacto- nitrile	00n 88 95 980 98n 990 99n 000 00n	No reports	NR 3,852 3,973 10 3,772 3 2,811	NR 0 0 0 0 0 0	NR 0 56,698 24,000 55,487 15,000 139,007 21,000	NR 0 0 0 0 0	NR 3,852 60,671 24,010 59,259 15,003 141,818 21,000	NR 0 0 147 0 169 0 76	NR 3,852 60,671 24,157 59,259 15,172 141,818 21,076
80-62-6		Methyl meth- acrylate	88 95 980 98n 990 99n 000 00n	218 267 288 14 298 19 306 20	3,630,569 2,130,734 2,254,988 11,821 2,632,383 6,086 2,708,026 18,752	28,437 1,672 437,470 0 3,343 1 3,175 292	327,220 120,000 150,000 17,206 62,000 0 230,000	8,119 1,056 1,872 9,700 7,904 43,660 649 30,673	3,994,345 2,253,462 2,844,330 38,727 2,705,630 49,747 2,941,850 49,717	276,567 124,867 332,939 1,418 508,265 24,584 149,325 1,805	4,270,912 2,378,329 3,177,269 40,145 3,213,895 74,331 3,091,175 51,522
924-42-5		N-Methylol- acrylamide	88 95 980 98n 990 99n 000	NR 29 36 No reports 35 No reports	NR 2,835 5,473 6,178 4,052	NR 1,171 1,245 1,259	NR 0 0	NR 38 45 53	NR 4,044 6,763 7,490 5,143	NR 13 24,987 3,648 5,510	NR 4,057 31,750 11,138
			000 00n	1	4,032	1,030	0	0	3,143	3,310	0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

			cled	Energy	Recovery	1.	reated	0	T-4-1	N D d
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
* Methyl isobutyl	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
ketone	95	52,705,598	16,414,014	27,186,503	18,142,083	17,815,572	1,925,979	22,338,883	156,528,632	49,931
	980	58,935,157	10,808,954	28,643,209	10,717,438	14,355,260	2,754,391	15,301,172	141,515,581	166,597
	98n	5,155,860	110,732	21,764	15,671,142	1,875,406	1,569,508	51,338	24,455,750	1,744
	99o 99n	45,930,949 5,991,094	11,511,784 144,994	28,131,633 16,000	9,964,501 15,612,606	14,261,565 3,525,102	2,019,121 2,403,097	14,692,781 88,403	126,512,334 27,781,296	333,729 5,139
	99II 00o	48,254,482	11,680,968	20,105,666	9,824,397	15,983,586	2,403,097	12,991,356	121,275,344	110,011
	00n	9,337,665	739	76,277	11,258,491	4,308,570	1,792,690	676,243	27,450,675	538
Methyl isocyanate	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
,,	95	0	0	0	0	66,939	0	1,658	68,597	0
	98o	0	0	0	3,450	90,771	0	497	94,718	5
	98n	No reports								
	990	0	0	0	0	6,393	32	2,310	8,735	0
	99n	0	0	0	0	111,931	0	157	112,088	0
	000	0	0	0	0	87,251	0	668	87,919	0 0
* Methyl isothio-	00n 88	NA	NA	NA	NA	67,878 NA	NA	0 NA	67,878 NA	NA
cyanate	95	0	0	0	62	0	82	1,586	1,730	0
o j unato	98o	0	0	0	0	0	120	1,359	1,479	0
	98n	No reports						,	,	
	99o	0	0	0	48	0	72	1,091	1,211	0
	99n	No reports								
	00o	0	0	0	338	0	113	1,136	1,587	0
2.34.41.41.4	00n	No reports	214	214	NTA.	NIA	D.T.A.	D.T.A.	NTA.	NIA
2-Methyllacto-	88 95	NA 0	NA 0	NA 0	NA 0	NA 24.052	NA	NA 3,853	NA 27,905	NA 0
nitrile	93 980	0	0	0	0	24,052 9,268	0	61,231	70,499	1
	98n	0	0	0	0	0,200	6	24,010	24,016	0
	990	0	0	0	0	9,280	5	59,252	68,537	0
	99n	0	0	0	0	98,944	3	15,105	114,052	0
	00o	0	0	0	0	9,330	2	141,861	151,193	0
	00n	0	0	0	0	69,747	3	21,000	90,750	0
Methyl meth-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
acrylate	95	4,665,497	20,746	2,049,934	1,396,710	5,135,771	697,747	2,275,853	16,242,258	3,234
	980 98n	1,483,426 63,000	58,753	2,254,439	1,794,064 942,771	4,004,435 962,274	578,962 9,146	3,193,032	13,367,111	8,246
	990	1,766,009	0 47,419	0 1,979,196	2,111,820	5,487,348	786,030	34,953 3,365,560	2,012,144 15,543,382	17,398
	99n	76,679	0	0	225,772	703,641	3,836	73,830	1,083,758	0
	00o	1,635,431	92,197	4,384,567	2,253,557	4,943,289	718,983	3,060,194	17,088,218	1,337
	00n	106,047	0	1,020	345,112	607,786	84,366	39,803	1,184,134	0
N-Methylol-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
acrylamide	95	360	0	0	294	14,277	4,373	3,096	22,400	0
	980	0	113	0	0	12,400	7,425	31,759	51,697	99
	98n	No reports	100	_	_	10.605	0.050	,, ,,,	22.25	_
	990	0 No somesta	120	0	0	12,607	8,373	11,151	32,251	0
	99n 00o	No reports 0	0	0	24,460	4,550	15,278	10,661	54,949	0
	000 00n	0	0	0	24,400	32,133	13,278	10,661	32,133	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
298-00-0	*	Methyl parathion	88 95 980 98n 990 99n	NR 5 5 No reports	NR 1,442 189	NR 0 0	NR 0 0	NR 0 0	NR 1,442 189 15 0	NR 2,684 0	NR 4,126 189
100.06.0			00o 00n	1 5 2	0 1 0	0 0	0	0 0	1 0	0 0	0 1 0
109-06-8		2-Methylpyridine	88 95 980 98n 990 99n 000 00n	NR 8 7 1 7 3 8	NR 89,938 3,008 0 16,926 13 19,841	NR 0 0 0 0 1 22 0	NR 61,720 38,900 0 50,100 0 24,000	NR 0 0 0 0 0 0	NR 151,658 41,908 0 67,026 14 43,863	NR 40 813 0 6 258 0	NR 151,698 42,721 0 67,032 272 43,863 5
872-50-4		N-Methyl-2- pyrrolidone	88 95 980 98n 990 99n 000 00n	NR 278 403 80 406 86 405 86	NR 2,717,710 3,005,987 19,320 3,349,489 22,284 3,081,345 28,153	NR 201,221 42,961 0 35,538 0 13,510 5,142	NR 779,477 2,865,692 0 2,945,457 0 2,022,037	NR 135,050 99,411 0 96,877 43,322 107,624 42,536	NR 3,833,458 6,014,051 19,320 6,427,361 65,606 5,224,516 75,831	NR 391,111 495,554 3,165 550,466 87,564 878,669 41,122	NR 4,224,569 6,509,605 22,485 6,977,827 153,170 6,103,185 116,953
9006-42-2	*	Metiram	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
21087-64-9	*	Metribuzin	88 95 980 98n 990 99n 000	NR 3 8 No reports 9 1 6	NR 1,936 339 397 0 103	NR 9 26 68 0 7	NR 0 0 0 0 0 0	NR 0 0 1 0 0	NR 1,945 365 466 0 110	NR 0 255 250 0 0	NR 1,945 620 716 0 110
7786-34-7	*	Mevinphos	00n 88 95 980 98n 990 99n 000 00n	NR 1 1 No reports 1 No reports No reports No reports	0 NR 0 0	NR 0 0	NR 0 0	0 NR 0 0	0 NR 0 0	0 NR 0 0	0 NR 0 0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recy	vcled	Energy l	Recovery	T	reated	0	T-4-1	Nasa Daradara
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
* Methyl parathion	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	29	0	0	0	0	0	3,664	3,693	0
	980 98n	0 No reports	0	0	0	0	47,000	8,531	55,531	0
	990	0	0	0	0	0	23,992	6,501	30,493	0
	99n	0	0	0	0	21,609	0	0	21,609	0
	00o	0	0	0	0	0	11,653	1	11,654	0
	00n	0	0	0	0	62,814	74	0	62,888	0
2-Methylpyridine	88 95	NA 0	NA 57,000	NA 19,000	NA 470	NA 37,000	NA 98,212	NA 150,962	NA 362,644	NA 930
	93 980	0	140,000	42,139	12	37,000	330	42,748	225,232	930
	98n	0	0	0	0	0	0	0	0	0
	99o	0	170,000	34,963	5,110	40,610	1,475	67,075	319,233	1,000
	99n	0	0	0	0	267,046	0	267	267,313	0
	00o	4,400	130,000	36,959	4,200	43,180	2,652	43,876	265,267	0
NI Madaal 2	00n	0	0	0	0	165,962	774	5	166,741	0
N-Methyl-2- pyrrolidone	88 95	NA 1,477,378	NA 6,547,234	NA 182,638	NA 2,387,644	NA 5,116,412	NA 3,410,100	NA 4,486,019	NA 23,607,425	NA 977
pyrrondone	98o	425,294	7,409,124	2,802,735	3,600,267	5,278,880	3,892,070	6,623,922	30,032,292	4,486
	98n	8,817,169	6	391	2,520,061	874,778	336,965	22,239	12,571,609	0
	99o	691,547	6,441,224	5,920,945	4,466,902	4,679,420	3,768,786	6,954,546	32,923,370	452
	99n	7,179,672	971,015	1,850	3,962,632	913,836	1,335,420	66,837	14,431,262	10
	00o	688,009	15,899,441	5,021,479	9,529,555	5,828,253	3,427,890	5,812,849	46,207,476	1,052
* Metiram	00n 88	6,320,858 NA	858,557 NA	1,711 NA	7,895,334 NA	923,014 NA	175,182 NA	200,820 NA	16,375,476 NA	10 NA
Methani	95	No reports	INA	INA	INA	INA	INA	INA	INA	INA
	98o	No reports								
	98n	No reports								
	99o	No reports								
	99n	No reports								
	00o	No reports								
* Metribuzin	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
THE WILL GETT	95	0	0	0	0	3,502	5,423	3,519	12,444	0
	98o	0	0	0	0	4,596	48,209	140	52,945	0
	98n	No reports								
	990	0	0	0	0	19,899	63,938	7,849	91,686	0
	99n	0	0	0	0	19,614	21 100	7 207	19,614	0
	00o 00n	0	0	0	0	4,779 19,614	21,199 0	7,307 0	33,285 19,614	0
* Mevinphos	88	NA	NA	NA	NA	19,014 NA	NA	NA	19,014 NA	NA
	95	0	0	0	0	0	0	0	0	0
	98o	0	0	0	0	0	0	0	0	0
	98n	No reports								
	99o	0	0	0	0	0	0	0	0	0
	99n	No reports								
	00o 00n	No reports No reports								
	OOH	TWO Teports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
90-94-8	**	Michler's ketone	88 95 980 98n 990 99n 000 00n	4 1 1 No reports 2 No reports No reports	1,100 1,577 511 869	0 0 0	0 0 0	0 0 0	1,100 1,577 511 869	0 0 0	1,100 1,577 511 869
2212-67-1	*	Molinate	88 95 980 98n 990 99n 000 00n	NR 3 3 No reports 4 1 4 No reports	NR 695 1,063 1,698 2 1,585	NR 502 113 116 0 105	NR 0 0 0 0	NR 0 0 0	NR 1,197 1,176 1,814 2 1,690	NR 6,363 8,305 7,997 60 3,243	NR 7,560 9,481 9,811 62 4,933
1313-27-5		Molybdenum trioxide	88 95 980 98n 990 99n 000 00n	102 163 171 20 173 20 175 23	111,195 179,060 198,560 22,062 100,444 14,654 71,218 20,913	139,021 27,305 36,018 312 36,086 758 26,676 300	197,115 333,730 302,000 5 117,120 0 148,950	97,238 77,604 48,888 899,506 111,465 561,238 193,796 670,920	544,569 617,699 585,466 921,885 365,115 576,650 440,640 692,133	573,624 1,029,058 621,914 148,188 1,214,524 179,240 1,371,213 129,781	1,118,193 1,646,757 1,207,380 1,070,073 1,579,639 755,890 1,811,853 821,914
76-15-3		Monochloropenta- fluoroethane (CFC-115)	88 95 980 98n 990 99n 000 00n	NR 14 7 1 5 1 4	NR 275,259 76,256 6,852 65,485 11,129 59,749 1,700	NR 2,854 5 0 5 0 5	NR 3 0 0 0 0 0	NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NR 278,116 76,261 6,852 65,490 11,129 59,754 1,700	NR 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NR 278,123 76,261 6,852 65,490 11,129 59,754 1,700
150-68-5	*	Monuron	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
505-60-2	**	Mustard gas	88 95 980 98n 990 99n 000 00n	No reports							

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(<i>типиеи)</i>		Recy	cled	Energy R	Recovery	Tı	reated	0 "	T. 4.1	N D I
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
**	Michler's ketone	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	436	0	0	1,577	2,013	0
		980 98n	0 No reports	0	0	305	14,098	0	511	14,914	0
		990	0	0	290,000	309	11,720	86	632	302,747	0
		99n	No reports		ĺ					ĺ	
		00o	No reports								
*	Molinate	00n 88	No reports NA	NIA	NA	NT A	NA	NIA	NA	NIA	NA
*	Monnate	88 95	NA 0	NA 0	NA 0	NA 0	3,312	NA 128,004	6,450	NA 137,766	NA 0
		98o	0	0	0	0	9,646	67,166	10,483	87,295	0
		98n	No reports					·			
		99o	0	0	0	0	4,732	16,348	7,211	28,291	2,504
		99n 00o	0	0	0	0	11,125 4,226	77,036	62 5,508	11,187 86,770	0 2,504
		000 00n	No reports	U	U	U	4,220	77,030	3,308	80,770	2,304
	Molybdenum	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	trioxide	95	6,201,074	2,454,463	0	3,530	51,382	346,576	1,614,949	10,671,974	21,636
		980	3,589,437	3,008,934	0	0	132,214	526,540	1,725,436	8,982,561	110
		98n 99o	0 3,286,213	0 1,812,178	0 511	0 46,400	42,786 36,387	0 329,180	1,557,562 1,726,749	1,600,348 7,237,618	1,890
		99n	0	0	0	0	63,467	0	791,749	855,216	0
		00o	1,720,245	2,326,707	0	21,023	49,313	178,196	1,895,686	6,191,170	90,313
		00n	0	0	0	0	10,471	0	841,273	851,744	0
	Monochloropenta- fluoroethane	88 95	NA 8,600	NA 2,200	NA 0	NA 0	NA 257,501	NA 24,651	NA 278,151	NA 571,103	NA 0
	(CFC-115)	93 980	2,000	36,230	0	0	3,137	24,031	76,257	117,882	0
	(98n	0	0	0	0	0	0	5,340	5,340	1,512
		99o	0	34,344	0	0	4,683	0	28,190	67,217	37,300
		99n	0	0	0	0	0	0	11,129	11,129	0
		00o 00n	8,013 0	2,348	0	0	4,129 0	0	59,754 1,700	74,244 1,700	0
*	Monuron	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	No reports								
		98o	No reports								
		98n 99o	No reports No reports								
		99n	No reports								
		00o	No reports								
		00n	No reports								
**	Mustard gas	88	NA No nomenta	NA	NA	NA	NA	NA	NA	NA	NA
		95 98o	No reports No reports								
		98n	No reports								
		99o	No reports								
		99n	No reports								
		00o	No reports								
		00n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

Commune							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
88671-89-0	*	Myclobutanil	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	2 3	1,000	0	0	0	1,000	0	0
			980 98n	No reports	1,000	U	U	0	1,000	U	1,000
			99o	5	1,000	0	0	0	1,000	0	1,000
			99n 00o	No reports 6	1,000	0	0	0	1,000	0	1,000
			000 00n	No reports	1,000	U	O .	U	1,000	U	1,000
142-59-6	*	Nabam	88	NR	NR	NR	NR	NR	NR	NR	NR
			95 98o	3 5	0	0 4,864	0	0	0 4,864	0	0 4,864
			98n	1	0	0	0	0	0	0	0
			99o	4	0	0	0	0	0	0	0
			99n 00o	No reports 5	0	0	0	0	0	0	0
			000 00n	No reports	U	U	U	U	U	U	0
300-76-5	*	Naled	88	NR	NR	NR	NR	NR	NR	NR	NR
			95 98o	2	50 0	0	0	0	50 0	2,200	2,250
			980 98n	No reports	U	U	U	U	U	U	0
			990	2	0	0	0	0	0	0	0
			99n	No reports		^		^			
			00o 00n	2 No reports	0	0	0	0	0	0	0
91-20-3	*	Naphthalene	88	420	5,165,426	22,518	50,946	123,697	5,362,587	1,359,184	6,721,771
		-	95	543	2,721,074	43,352	44,318	44,782	2,853,526	475,981	3,329,507
			980 98n	543 224	3,376,268 91,912	34,180 296	191,677 5	1,262,478 11,028	4,864,603 103,241	824,191 122,188	5,688,794 225,429
			990	550	2,602,181	38,374	166,054	51,279	2,857,888	641,636	3,499,524
			99n	202	101,356	580	5	93,832	195,773	104,810	300,583
			00o 00n	560	2,151,069	48,568 287	205,684 250	131,156 594	2,536,477 174,549	279,648	2,816,125 205,988
134-32-7	**	alpha-Naphthyl-	88	184	173,418 590	101	0	0	691	31,439 0	691
		amine	95	1	0	0	0	0	0	0	0
			980	2	0	0	0	0	0	0	0
			98n 99o	1 2	0	0	0	0	0	0	0
			99n	3	7	1	0	0	8	164	172
			00o	1	0	0	0	0	0	0	0
91-59-8	**	beta-Naphthyl-	00n 88	No reports	0	0	0	0	0	0	0
71-37-0		amine	95	No reports							
			98o	No reports	_	^	^	^	_		_
			98n 99o	1 No reports	0	0	0	0	0	0	0
			99n	1	2	1	0	0	3	5	8
			00o	No reports							
			00n	2	0	0	0	0	0	0	0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

			Recy	cled	Energy	Recovery	T	reated	0	T-4-1	Nau Duadua
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
*	Myclobutanil	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	0	0	0	0	0	0
		980 98n	0 No reports	0	0	0	0	794	243	1,037	0
		9811 990	No reports	0	0	0	0	2,116	455	2,571	0
i		99n	No reports					, -		7.	
		00o	0	0	0	0	0	2,602	86	2,688	0
*	NI-1	00n	No reports	NT A	NT A	NIA	NIA	NIA	NIA	NIA	NIA
*	Nabam	88 95	NA 0	NA 0	NA 0	NA 0	NA 14,218	NA 253	NA 0	NA 14,471	NA 0
		98o	0	0	192	0	7,352	0	4,864	12,408	0
		98n	0	0	0	0	0	0	0	0	0
		99o	0	0	0	0	0	0	0	0	0
		99n	No reports 0	0	0	0	0	0	0	0	0
		00o 00n	No reports	0	U	U	0	0	0	0	0
*	Naled	88	NA NA	NA	NA	NA	NA	NA	NA	NA	NA
i		95	0	0	0	0	1,000	2,600	0	3,600	9
i		98o	0	0	0	0	0	0	0	0	0
i		98n 99o	No reports 0	0	0	0	0	0	0	0	0
i		990 99n	No reports	U	U	U	0	U	U	0	0
i		00o	0	0	0	0	0	0	0	0	0
		00n	No reports								
*	Naphthalene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	10,707,785	805,729	5,310,396	1,883,846	8,482,851	1,239,743	3,090,782	31,521,132	351,872
		980 98n	8,251,370 1,181,526	989,387 33,469	6,787,628 5,104	1,682,299 22,735,868	8,048,896 846,984	1,028,079 94,138	4,799,997 108,996	31,587,656 25,006,085	81,403 57,332
		990	14,439,008	1,043,508	71,193,194	2,372,662	6,395,518	699,765	3,529,484	99,673,139	31,390
		99n	432,197	62,372	4,485	856,986	2,647,239	130,326	205,060	4,338,665	11,733
		00o	12,853,272	6,573,131	8,371,876	2,139,325	10,818,538	368,247	2,874,251	43,998,640	5,049
**	-11 NI1.411	00n	365,943	49,605	3,192	493,001	4,169,112	86,232	190,078	5,357,163	10,316
	alpha-Naphthyl- amine	88 95	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0
ı	diffine	98o	0	0	0	0	0	0	0	0	0
i		98n	0	0	0	0	0	0	0	0	0
ı		99o	0	0	0	0	0	0	0	0	0
i		99n	0	0	0	0	243,339	0	165	243,504	0
i		00o 00n	0	0	0	0	0 105,073	0 780	0	105,853	0
**	beta-Naphthyl-	88	NA	NA	NA	NA	103,073 NA	NA	NA	NA	NA
	amine	95	No reports								
		98o	No reports								
		98n	0 No sements	0	0	0	0	0	0	0	0
		990 99n	No reports 0	0	0	0	118,000	0	3	118,003	0
		000	No reports	U		U	110,000	U]	110,003	
		00n	0	0	0	0	16,926	733	0	17,659	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
7440-02-0	**	Nickel	88 95 980 98n 990	1,185 2,012 2,241 60 2,251	452,420 326,525 707,564 42,295 742,657	90,636 25,996 27,561 4,286 25,562	14,295 6,370 19,654 110,158 16,689	1,225,001 394,078 353,096 4,939,158 363,020	1,782,352 752,969 1,107,875 5,095,897 1,147,928	7,661,144 3,950,393 3,183,335 3,970,420 3,551,480	9,443,496 4,703,362 4,291,210 9,066,317 4,699,408
			99n 00o 00n	47 2,258 41	40,011 635,694 15,225	1,496 23,912 2,015	250 16,566 0	4,062,464 412,792 1,619,696	4,104,221 1,088,964 1,636,936	3,748,263 4,622,069 1,983,327	7,852,484 5,711,032 3,620,263
-	**	Nickel compounds	88 95 980 98n 990 99n 000 00n	581 924 1,065 322 1,084 313 1,026 326	274,177 271,335 384,745 729,847 456,959 720,433 363,899 681,758	132,233 61,456 132,149 292,411 83,814 160,443 80,339 152,149	224,968 146,886 146,481 337,213 209,998 181,012 141,197 594,255	2,384,594 2,479,050 5,715,669 50,952,168 2,707,692 53,230,558 3,905,252 51,867,370	3,015,972 2,958,727 6,379,044 52,311,639 3,458,463 54,292,446 4,490,686 53,295,532	6,210,238 6,291,682 4,898,874 5,996,025 5,228,074 5,616,944 5,971,062 5,760,789	9,226,210 9,250,409 11,277,918 58,307,664 8,686,537 59,909,390 10,461,748
		Nicotine and salts	88 95 980 98n 990 99n 000 00n	NR 22 31 2 34 3 37 3	NR 365,639 325,882 3 286,683 19 306,148	132,149 NR 755 706 0 586 0 840 0	NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11,80/,3/0 NR 135 0 0 0 0 0	366,529 326,588 3 287,269 19 306,988	7,700,789 NR 288,712 287,471 250 758,433 889 214,953 163	59,056,321 NR 655,241 614,059 253 1,045,702 908 521,941 167
1929-82-4	*	Nitrapyrin	88 95 980 98n 990 99n 000 00n	NR 3 No reports 5 No reports 6 No reports	NR 7 1 1	NR 119,451 0 0	NR 0 0 0	NR 0 0 0	NR 119,458 1 1	NR 0 0	NR 119,458 1 1
		Nitrate compounds	88 95 980 98n 990 99n 000 00n	NR 1,333 1,582 103 1,765 95 1,825	NR 425,144 370,204 5,994 400,338 751 336,149 582	NR 165,664,206 214,139,831 2,550,416 232,513,036 1,525,127 231,650,081 1,310,238	NR 48,046,406 47,188,846 5,936,287 42,177,781 4,565,634 47,101,811 10,101,883	NR 8,532,995 6,466,740 5,759,253 7,179,292 6,292,361 6,905,003 6,136,060	NR 222,668,751 268,165,621 14,251,950 282,270,447 12,383,873 285,993,044 17,548,763	NR 6,066,263 10,276,304 696,740 11,935,009 543,895 12,657,179 920,755	NR 228,735,014 278,441,925 14,948,690 294,205,456 12,927,768 298,650,223 18,469,518
7697-37-2	*	Nitric acid	88 95 980 98n 990 99n 000 00n	1,921 1,850 1,852 148 1,806 143 1,780	8,277,993 2,627,173 2,376,889 369,555 2,195,402 594,485 2,294,904 6,886	1,380,565 46,586 47,646 13,005 60,181 0 51,764	25,485,680 18,755,717 18,869,510 5,300,750 16,482,141 6,328,468 11,877,808 7,613,956	580,695 293,009 159,272 63,544 222,825 60,018 309,623 138,476	35,724,933 21,722,485 21,453,317 5,746,854 18,960,549 6,982,971 14,534,099 7,759,328	7,929,318 4,395,862 936,235 211,377 7,864,005 207,213 8,287,088 110,909	43,654,251 26,118,347 22,389,552 5,958,231 26,824,554 7,190,184 22,821,187 7,870,237

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	эниниеи)		Rec	ycled	Energy R	Recovery	ŗ	Freated	0	T-4-1	Non Burden
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
**	Nickel	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	38,876,004	82,242,054	127	767	1,536,785	955,778	3,481,144	127,092,659	19,071
		98o	38,422,524	81,763,546	38,720	1,899	319,324	556,472	3,482,308	124,584,794	10,591
		98n	18,430	122,923	0	0	20,200	3,187	10,127,021	10,291,761	0
		990	28,691,411	82,612,427	0	575	849,079	556,938	3,919,998	116,630,428	172,606
		99n	16,954	169,110	0	0	72,021	4,325	8,215,222	8,477,632	14 207
		00o	40,609,146	81,586,762	106,100 0	24,816	1,653,289	410,532	5,168,416	129,559,060	14,307
**	Nielral commounds	00n 88	14,722 NA	56,562 NA			57,529	165,705 NA	4,509,328	4,803,846 NA	NA
	Nickel compounds	95	13,170,540	34,902,775	NA 0	NA 2,120	NA 5,609,537	1,156,876	NA 7,828,173	62,670,021	332,627
		98o	5,915,209	28,024,688	5,035	357	674,087	786,836	11,764,272	47,170,484	710,320
		98n	238,108	1,012,633	0,033	0	197,447	86,774	58,341,978	59,876,940	4,709
		99o	5,421,557	29,917,844	2,900	27,271	647,131	799,670	8,920,204	45,736,577	416,119
		99n	982,507	1,271,558	0	0	35,156	99,979	54,649,391	57,038,591	5,230,025
		00o	5,879,050	27,305,743	7,493	3,406	682,975	883,243	9,542,682	44,304,593	1,235,325
		00n	912,601	1,743,134	0	0	67,524	145,366	56,930,039	59,798,664	2,203,011
	Nicotine and salts	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	34,602	0	0	275,790	297,376	652,796	1,260,564	0
		98o	0	7,611	0	0	827,884	645,409	621,865	2,102,769	8,449
		98n	0	0	0	0	148,971	0	54	149,025	0
		990	2,877	4,692	0	0	797,497	541,900	547,463	1,894,429	0
		99n	0	0	0	0	613,391	0	717	614,108	0
		00o	2,662	39,198	0	3,000	805,846	549,964	520,111	1,920,781	0
*	377	00n	0	0	0	0	564,406	0	167	564,573	0
~	Nitrapyrin	88 95	NA 0	NA 0	NA 0	NA 7,100	NA 0	NA 380	NA 128,628	NA 136,108	NA 0
		93 980	0	0	0	7,100	0	140	120,020	130,108	0
		98n	No reports	U	U	Ü	U U	140	1	141	0
		990	0	0	0	0	0	140	1	141	0
		99n	No reports	O	Ů.	Ü	l °	140	1	141	
		00o	0	0	0	0	0	534	1	535	0
		00n	No reports	Ü	Ŭ	Ü					Ů
	Nitrate compounds	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	•	95	95,092,956	2,843,170	0	0	52,361,007	108,202,520	249,819,927	508,319,580	112,206
		98o	113,743,906	2,196,413	0	59,241	104,013,103	139,253,451	293,116,219	652,382,333	135,942
		98n	4,083,825	8,473	0	0	3,170,478	1,019,036	16,239,222	24,521,034	865
		99o	95,509,647	1,858,280	0	55,902	118,156,409	139,496,886	320,358,149	675,435,273	562,710
		99n	3,074,592	17,342	0	0	3,844,369	1,467,961	13,354,735	21,758,999	1,267
		00o	92,854,600	1,648,294	0	39,820	148,499,253	147,521,446	332,099,089	722,662,502	540,424
y.	377.	00n	4,450,631	8,888	0	0	5,784,241	1,508,193	19,969,268	31,721,221	1,875
*	Nitric acid	88	NA	NA	NA 250 245	NA 255	NA	NA	NA	NA	NA
		95	28,683,640	3,881,357	250,245	255	246,547,570	17,511,531	27,087,369	323,961,967	118,978
		980 08n	49,798,305	3,136,717	0		311,060,637	17,609,663	22,218,293	403,823,763	27,495
		98n 99o	0 49,505,705	365 2,808,384	0 14,434	13,530	9,396,283 333,827,325	388,854 15,125,403	6,301,805 27,157,617	16,100,837 428,438,868	0 4,544
		990 99n	49,303,703	2,808,384	14,434	0	10,580,858	538,110	7,181,493	18,300,461	4,344
		99n 00o	58,106,020	1,801,441	0	148	414,222,695	13,861,767	24,926,310	512,918,381	147,229
		00n	0	2,400	0	176	11,065,731	1,505,904	7,891,496	20,465,707	64
		3011	0	2,700	l v	1/0	11,000,751	1,202,707	7,071,770	20,703,707	1

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
139-13-9	** Nitrilotriacetic acid	88 95 980 98n	14 7 14 1	2,500 1 1,407 0	5,100 34 10,202 0	0 2,900 2,400 0	5,100 0 0 11,617	12,700 2,935 14,009 11,617	250 0 0 0	12,950 2,935 14,009 11,617
		990 99n 000 00n	No reports 11 No reports	600 651	6,320	1,600 2,200	0	8,520 2,859	0	8,520 2,859
100-01-6	p-Nitroaniline	88 95 980 98n 990	NR 4 4 1 4	NR 11,205 12,053 5 11,950	NR 2 0 0 0 0	NR 0 0 0	NR 0 0 0	NR 11,207 12,053 5 11,950	NR 0 0 500	NR 11,207 12,053 505 11,950
99-59-2	5-Nitro-o-	99n 00o 00n 88	1 6 No reports No reports	27 3,933	0	0	7,644	7,671 3,933	4,119	11,790 3,933
	anisidine	95 980 98n 990 99n 000	1 No reports 1 No reports	10 10 10	0 5 5	0 0	0 0	10 15 15	0 0	10 15 15
98-95-3	*,** Nitrobenzene	00n 88 95 980 98n 990 99n 000	No reports 19 17 17 10 21 13	41,279 25,529 79,943 504 76,723 551 41,606	7,283 874 902 250 372 0	819,000 330,344 407,090 15,529 160,441 50,906 297,084	3,538 43 62 0 65 0	871,100 356,790 487,997 16,283 237,601 51,457 338,828	69,570 961 11,324 1,059 83,408 13,877 6,604	940,670 357,751 499,321 17,342 321,009 65,334 345,432
92-93-3	*,** 4-Nitrobiphenyl	00n 88 95 980 98n 990 99n 000 00n	No reports	33	0	0	0	33	107	140
1836-75-5	*,** Nitrofen	88 95 980 98n 990 99n 000 00n	No reports 1 No reports	505	0	0	0	505	5,500	6,005

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	eled	Energy I	Recovery	Т	reated	Quantity	Total	Non Duoduo
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
** Nitrilotriacetic	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
acid	95	2,500	0	0	0	969,141	1,872	2,935	976,448	0
	98o	0	0	0	0	1,070,287	27,440	14,009	1,111,736	0
	98n	0	0	0	0	0	0	11,617	11,617	0
	990	0	0	0	0	727,119	142	8,520	735,781	0
	99n 00o	No reports 0	0	0	0	577,244	3,138	2,859	583,241	0
	000 00n	No reports	U	O	U	377,244	3,136	2,639	363,241	0
p-Nitroaniline	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
F	95	0	0	7	0	266	93,016	12,007	105,296	0
	98o	0	0	0	0	0	169,426	12,253	181,679	0
	98n	0	0	0	0	28,500	1	150	28,651	0
	99o	0	0	0	0	0	86,550	12,200	98,750	0
	99n	0	0	0	0	1,249	0	11,790	13,039	0
	00o	9,570	0	32,495	85	0	9,411	3,933	55,494	0
5-Nitro-o-	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
anisidine	95	0	0	0	0	0	0	5	5	0
amsianic	98o	0	0	0	0	0	0	1	1	0
	98n	No reports	· ·	Ŭ	Ü	· ·	· ·	•	1	ľ
	99o	0	0	0	0	0	0	1	1	0
	99n	No reports								
	00o	0	0	0	0	0	0	1	1	0
	00n	No reports								
*,**Nitrobenzene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95 98o	1,277,200	0 0	1,554,583	79,781	1,297,305	639,061	354,552 497,174	5,202,482	647 7,023
	980 98n	419,863 0	0	1,847,505 0	590,234 663,888	1,743,632 778,054	1,056,242 0	16,670	6,154,650 1,458,612	0,023
	990	13,245,570	1	1,773,033	1,431,993	3,005,001	2,334,493	327,531	22,117,622	9,088
	99n	150,901	0	0	250,049	1,240,915	732	51,127	1,693,724	10
	00o	796,670	0	2,727,633	823,483	1,055,499	1,539,055	337,937	7,280,277	763
	00n	0	0	178	43,065	526,187	13,405	138	582,973	0
*,**4-Nitrobiphenyl	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	No reports								
	98o	No reports								
	98n 99o	No reports								
	990 99n	No reports No reports								
	99n 00o	No reports								
	00n	No reports								
*,**Nitrofen	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	No reports								
	98o	No reports								
	98n	No reports								
	99o	No reports								
	99n	No reports	200	^			^	_	200	_
	00o	O No sements	200	0	0	0	0	0	200	0
	00n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

`						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
51-75-2	** Nitrogen mustard	95 980 98n 990 99n 000 00n	No reports							
55-63-0	Nitroglycerin	88 95 980 98n 990 99n 000 00n	22 20 21 1 28 4 27 2	52,383 26,087 12,814 0 15,507 3 154,372 0	2,746 13,300 4,713 0 1 0 1	0 0 0 0 0 0 0	11,640 0 0 0 0 0 0 0	66,769 39,387 17,527 0 15,508 3 154,373	2 0 266 0 1,014 111 2 0	66,771 39,387 17,793 0 16,522 114 154,375
88-75-5	2-Nitrophenol	88 95 980 98n 990 99n 000 00n	4 5 5 1 6 No reports 5	33,689 38 45 129 52 84	1 50 35 0 48	0 0 0 0 0	2 0 0 0 0	33,692 88 80 129 100	13,100 0 0 0 0 0	46,792 88 80 129 100 140 0
100-02-7	* 4-Nitrophenol	88 95 980 98n 990 99n 000 00n	7 6 5 3 6 4 5 3	7,855 945 855 35 867 201 969	0 0 0 0 0 1 16	6,300 0 0 0 0 0 0	7 0 0 0 0 0 21,924 0	14,162 945 855 35 867 22,126 985 0	70 0 0 500 0 4,272 0	14,232 945 855 535 867 26,398 985
79-46-9	*,** 2-Nitropropane	88 95 980 98n 990 99n 000 00n	15 5 3 6 2 4 2 5	389,385 31,265 23,479 359 20,844 98 18,652 68	4,300 3,000 558 0 285 1 224	257,000 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	650,685 34,265 24,037 359 21,129 99 18,876 68	4,785 0 0 192 0 1,146 0 647	655,470 34,265 24,037 551 21,129 1,245 18,876 715
924-16-3	** N-Nitrosodi-n- butylamine	88 95 980 98n 990	No reports No reports No reports 1 No reports	0	0	0	0	0	0	0
		99n 00o 00n	1 No reports 2	2	1	0	0	3	4 0	7 0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	eled	Energy R	Recovery	Tr	eated	Quantity	Total	Non-Produc-
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Released On-and Off-site Pounds	Production- related Waste Managed Pounds	tion-related Waste Managed Pounds
** Nitrogen mustard	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
Nitroglycerin	88 95 980 98n 990 99n 000 00n	NA 24,151 18,000 0 33,366 0 6,967	NA 0 15,198 0 790 0 0	NA 0 0 0 0 0 0 0	NA 0 21,685 0 32,958 0 27,266	NA 428,538 270,572 0 6,640,635 88,569 1,828,173 58,698	NA 59,598 134,991 0 59,510 0 72,328	NA 39,389 20,617 0 15,647 114 156,002	NA 551,676 481,063 0 6,782,906 88,683 2,090,736 58,698	NA 6 0 0 98 0 540
2-Nitrophenol	88 95 980 98n 990 99n 000	NA 0 0 0 0 0 No reports	NA 0 0 0 0	NA 28,000 82,000 0 65,000	NA 6 0 0 0	NA 120,000 61,000 352,946 324,516 670,000	NA 23,311 24,000 0 18,545	NA 83 85 129 101	NA 171,400 167,085 353,075 408,162	NA 0 0 0 0
* 4-Nitrophenol	00n 88 95 980 98n 990 99n 000 00n	0 NA 0 0 0 0 0 0	0 NA 0 0 0 0 0 0	0 NA 10,469 0 0 10,300 0 0	0 NA 3 0 591,228 0 0 0	0 NA 65,000 139,944 31,000 200,296 84,842 209,287 19,483	0 NA 574,800 633,083 1 526,451 380 67,811 724	0 NA 950 860 180 850 26,389 985	0 NA 651,222 773,887 622,409 737,897 111,611 278,083 20,207	0 NA 0 0 0 0 0 0
*,**2-Nitropropane ** N-Nitrosodi-n-	88 95 980 98n 990 99n 000 00n	NA 0 0 0 0 0 0 0 0 0 NA	NA 520 0 0 0 0 0 0 0 NA	NA 140,000 9,835 0 90 0 69 0 NA	NA 81 23 519,228 0 0 0 0 NA	NA 63,028 10,598 203,826 5,411 888,259 4,251 467,594 NA	NA 0 31,114 11,854 65 0 158 793 NA	NA 34,023 24,037 551 21,099 1,246 18,942 715 NA	NA 237,652 75,607 735,459 26,665 889,505 23,420 469,102 NA	NA 0 0 0 0 0 0 0 0 0 0 NA
butylamine	95 980 98n 990 99n	No reports No reports 0 No reports 0	0	0	0	0 32,000	0	0	0 32,002	0
	00o 00n	No reports	0	0	0	12,621	957	0	13,578	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	·						On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
55-18-5	**	N-Nitrosodiethyl- amine	88 95 980 98n	No reports No reports No reports 2	2	0	0	0	2	0	2
			990 99n 000	No reports No reports	30	1	0	7,640	7,671	4,123	11,794
			00n	3	0	0	0	0	0	0	0
62-75-9	**	N-Nitrosodi- methylamine	88 95 980 98n	No reports No reports	129	0	0	0	129	0	129
			990 99n 000	1 No reports No reports	5	0	0	0	5	0	5
			00n	1	0	0	0	0	0	0	0
86-30-6		N-Nitrosodi-	88	2	0	27	34,000	0	34,027	0	34,027
		phenylamine	95	3	10	0	0	0	10	0	10
			98o	4	12	0	0	0	12	0	12
			98n	1	63	0	0	0	63	0	63
			99o	5	16	0	0	0	16	0	16
			99n	1	17	0	0	0	17	0	17
			00o 00n	4 2	20 29	0	0	0	20 29	0	20 29
156-10-5		p-Nitrosodi-	88	2	15	0	2,000	0	2,015	180	2,195
130-10-3		phenylamine	95	2	24	0	2,000	0	2,013	520	2,193 544
		phenylamine	93 980	2	24	0	0	0	24	0	24
			98n	No reports	27	Ü	o o	· ·	27	Ĭ	2-7
			990	2	24	0	0	0	24	0	24
			99n	No reports							
			00o	2	0	0	0	0	0	0	0
			00n	No reports							
621-64-7	**	N-Nitrosodi-n-	88	No reports							
		propylamine	95	No reports		^	_	_	550	4.500	2.250
			980	1	750	0	0	0	750	1,500	2,250
			98n 99o	1 1	129 5	0	0	0	129 5	0	129 5
			990 99n	No reports	3	U	U	U	3	0	3
			000	1	2	0	0	0	2	0	2
			00n	2	0	0	0	0	0	0	0
759-73-9	**	N-Nitroso-N- ethylurea	88 95 980	No reports No reports No reports		-		Ţ.			
			980 98n	No reports	0	0	0	0	0	0	0
			990	No reports		U	U	U			
			99n	3	7	1	0	0	8	161	169
			00o	No reports	'	•	· ·	Ŭ		101	100
			00n	3	0	0	0	0	0	0	0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(опиниеи)		Recyc	eled	Energy F	Recovery	Tı	reated	0	T-4-1	N D d
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
**	N-Nitrosodiethyl- amine	88 95 980	NA No reports No reports	NA	NA	NA	NA	NA	NA	NA	NA
		98n 99o	0 No reports	0	0	0	23,708	0	2	23,710	0
		99n 00o	0 No reports	0	0	0	54,242	0	11,791	66,033	0
		00n	0	0	0	0	33,492	798	0	34,290	0
**	N-Nitrosodimethyl amine	- 88 95 980 98n	NA No reports No reports 0	NA 0	NA 0	NA 0	NA 352,946	NA 0	NA 129	NA 353,075	NA 0
		990 99n 00o	0 No reports No reports	0	0	0	3,978	40	1	4,019	0
	37377	00n	0	0	0	0	0	0	0	0	0
	N-Nitrosodiphenylamine	- 88 95	NA 0	NA 0	NA 0	NA 0	NA 30,815	NA 340,005	NA 10	NA 370,830	NA 0
	amme	93 980	0	0	0	340,000	77,702	34,298	10	452,012	0
		98n	0	0	0	0	80,769	0	63	80,832	0
		990	0	0	0	410,000	66,647	35,279	11	511,937	0
		99n	0	0	0	0	348,042	0	17	348,059	0
		00o	0	0	45,500	490,000	31,000	20,662	18	587,180	0
		00n	0	0	0	0	348,039	0	29	348,068	0
	p-Nitrosodiphenyl-		NA	NA	NA	NA 15 000	NA	NA	NA	NA 24 200	NA
	amine	95 98o	0	0	8,600 9,300	15,000	0	65 0	544 24	24,209	0 0
		980 98n	No reports	U	9,300	16,500	U	U	24	25,824	0
		990	0	0	10,000	18,000	0	0	24	28,024	0
		99n	No reports	Ť	,	,	_	_			
		00o	0	0	9,100	16,200	0	0	0	25,300	0
		00n	No reports								
**	N-Nitrosodi-n-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	propylamine	95 98o	No reports 0	0	25,000	1,500	25,000	0	600	52,100	0
		980 98n	0	0	25,000	1,500	352,946	0	129	353,075	0
		990	0	0	0	0	3,605	36	1	3,642	0
		99n	No reports				.,			- 7-	
		00o	0	0	30,275	79	0	0	2	30,356	0
		00n	0	0	0	0	12,299	771	0	13,070	0
**	N-Nitroso-N-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ethylurea	95	No reports								
		980 98n	No reports 0	0	0	0	0	0	0	0	
		98n 990	No reports	U	0	U	0	U	0		0
		99n	0	0	0	0	161,322	0	164	161,486	0
		00o	No reports	,	-	Ĵ	,	,			
		00n	0	0	0	0	98,336	781	0	99,117	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

							On-site Releases			Off-site Releases	
CAS Number	(Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
684-93-5		N-Nitroso-N- methylurea	88 95 980 98n 990 99n	No reports No reports No reports 1 No reports 3	0 7	0	0	0	0	0 162	0 170
4549-40-0		N-Nitrosomethyl- vinylamine	000 00n 88 95 980 98n	No reports No reports No reports No reports	0	0	0	0	0	0	0
			990 99n 000	No reports 2 No reports 1	4	0	0	0	4	153	157
59-89-2		N-Nitrosomor- pholine	00n 88 95 980 98n 990 99n 000 00n	No reports	0	0	0	0	0	0	0
16543-55-8		N-Nitrosonor- nicotine	88 95 980 98n 990 99n 000 00n	No reports							
100-75-4		N-Nitroso- piperidine	88 95 980 98n 990 99n	No reports No reports No reports 1 No reports 3	0 38	0	0	0 9,557	0 9,596	0 5,159	0 14,755
99-55-8	5	5-Nitro-o-	00o 00n 88	No reports 3 NR	0 NR	0 NR	5 NR	0 NR	5 NR	0 NR	5 NR
.,		oluidine	95 980 98n 990 99n 000 00n	3 2 1 2 3 3 3	5 0 0 0 27 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 7,644 0	5 0 0 0 7,671 0	30 0 0 0 4,139 0	35 0 0 0 11,810 0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	eled	Energy R	ecovery	Tr	eated	Quantity	Total	Non Buoduo
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
N-Nitroso-N- methylurea	88 95 980	NA No reports No reports	NA	NA	NA	NA	NA	NA	NA	NA
	98n 99o	0 No reports	0	0	0	0	0	0	0	0
	99n 00o	0 No reports	0	0	0	162,480	0	165	162,645	0
	00n	0	0	0	0	101,077	780	0	101,857	0
N-Nitrosomethyl- vinylamine	88 95 980 98n 990	NA No reports No reports No reports No reports	NA	NA	NA	NA	NA	NA	NA	NA
	99n 00o	0 No reports	0	0	0	94,353	0	157	94,510	0
	00n	0	0	0	0	67,878	0	0	67,878	0
N-Nitrosomor- pholine	88 95 980 98n 990 99n 000 00n	NA 0 No reports	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0
N-Nitrosonor- nicotine	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso- piperidine	88 95 980	NA No reports No reports	NA	NA	NA	NA	NA	NA	NA	NA
	98n 99o	0 No reports	0	0	0	0	0	0	0	0
	99n 00o	0 No reports	0	0	0	73,025	0	14,753	87,778	0
5-Nitro-o-	00n 88	0 NA	0 NA	0 NA	0 NA	22,898 NA	751 NA	2 NA	23,651	0 NA
toluidine	88 95	0 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 35	NA 35	0 NA
	98o	0	0	0	0	0	0	0	0	0
	98n	0	0	0	0	0	0	0	0	0
	990	0	0	0	0	0	0	11.000	0 92 202	0
	99n 00o	0	0 0	0	0	71,394 0	0	11,808 0	83,202 0	0
	00n	0	0	0	733	12,510	66	0	13,309	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(6011111111						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
27314-13-2	* Norflurazon	88 95	NR 2	NR 5	NR 0	NR 0	NR 0	NR 5	NR 54,000	NR 54,005
		980 98n	4 No reports	15	76	0	229	320	14,850	15,170
		99o 99n	2 No reports	5	2	0	4	11	1,850	1,861
		00o 00n	3 No reports	0	0	0	0	0	14,462	14,462
2234-13-1	Octachloro-	88	No reports							
	naphthalene	95	No reports							
		980	No reports							
		98n	No reports							
		99o 99n	No reports No reports							
		000	No reports							
		00n	No reports							
29082-74-4	*** Octachlorostyrene	88	NR	NR	NR	NR	NR	NR	NR	NR
		95	NR	NR	NR	NR	NR	NR	NR	NR
		980	NR	NR	NR	NR	NR	NR	NR	NR
		98n	NR	NR	NR	NR	NR	NR	NR	NR
		99o 99n	NR	NR	NR	NR	NR	NR	NR NB	NR
		99n 00o	NR 4	NR 0.00	NR 0.00	NR 0.00	NR 148.30	NR 148.30	NR 436.90	NR 585.20
		00n	No reports	0.00	0.00	0.00	140.50	146.50	430.90	363.20
19044-88-3	* Oryzalin	88	NR	NR	NR	NR	NR	NR	NR	NR
	·	95	2	5	0	0	0	5	0	5
		98o	3	98	0	0	0	98	0	98
		98n	1	5	0	0	0	5	0	5
		99o 99n	4	48	0	0	0	48	0	48
		99n 00o	1 4	5 24	0	0	0	5 24	0	5 24
		00n	No reports	24	O	Ü	O	24	0	24
20816-12-0	Osmium	88	No reports							
	tetroxide	95	No reports							
		980	No reports							
		98n	No reports							
		990	No reports	0	0	0	0	0	0	0
		99n 00o	No reports	0	0	0	0	0	0	0
		00n	1	0	5	0	0	5	0	5
301-12-2	* Oxydemeton	88	NR	NR	NR	NR	NR	NR	NR	NR
	methyl	95	1	0	0	0	0	0	0	0
		98o	1	0	0	0	0	0	0	0
		98n	No reports	_	_	-				_
		990	1 No. 1	0	0	0	0	0	0	0
		99n 00o	No reports	0	0	0	0	0	0	0
		000 00n	No reports		0	U	U			0
		0011	140 Teports							

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} PBT chemical added to list for 2000 reporting year. See Chapter 3 for more information.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

Chemical Vear	(commueu)		Recyc	cled	Energy R	Recovery	T	reated	0 "	T. 4.1	N. D. I
95 0 0 0 0 0 1,000 54,010 55,010 98n No reports 99n No reports 988 No reports 980 No reports 980 No reports 99n NR	Chemical	Year							On-and Off-site	related Waste Managed	Non-Produc- tion-related Waste Managed Pounds
980 0 0 0 0 0 12,700 59,780 340 72,820 980 990 No reports 0 0 0 0 0 0 46,850 15 46,865 0 0 0 0 0 0 0 0 14,900 14,900 29,800 0 0 0 0 0 0 14,900 14,900 29,800 0 0 0 0 0 0 14,900 14,900 29,800 0 0 0 0 0 14,900 14,900 29,800 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	* Norflurazon		NA	NA	NA	NA	NA				NA
98n No reports 0 0 0 0 0 46,850 15 46,865 0 0 0 0 0 0 0 46,850 15 46,865 0 0 0 0 0 0 0 0 14,900 14,900 29,800 0 0 0 0 0 14,900 14,900 29,800 0 0 0 0 0 14,900 14,900 29,800 0 0 0 0 0 14,900 14,900 29,800 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											0
990 0 0 0 0 0 0 0 46,850 15 46,865 0 0 0 0 0 0 0 14,900 29,800 0 0 0 0 0 0 14,900 29,800 0 0 0 0 0 0 14,900 29,800 0 0 0 0 0 0 14,900 29,800 0 0 0 0 0 0 14,900 29,800 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0	0	0	12,700	59,780	340	72,820	0
99n				0	0	0	0	46.850	15	46.865	0
Octachloro-				ŭ	Ů	ŭ	Ů	.0,000		.0,000	
Octachloro-		00o	0	0	0	0	0	14,900	14,900	29,800	0
naphthalene	0 . 11			27.4	27.1	371	27.	27.1	274	27.1	27.
*** Octachlorostyrene		95 980 98n 990 99n 000	No reports	NA	NA	NA	NA	NA	NA NA	NA	NA
NR	*** Octachlorostyrene			NA	NA	NA	NA	NA	NA	NA	NA
NR											NR
NR											NR
No											
* Oryzalin											NR NR
* Oryzalin											0.00
95											
980	* Oryzalin	88	NA	NA	NA	NA	NA		NA		NA
98n											0
990 0 0 0 0 0 0 19,472 0 0 0 19,472 0 0 19,472 0 0 0 19,472 0 0 0 19,472 0 0 0 0 19,472 0 0 0 0 19,472 0 0 0 0 19,472 0 0 0 0 19,472 0 0 0 0 19,472 0 0 0 0 19,472 0 0 0 0 19,472 0 0 0 0 19,472 0 0 0 0 19,472 0 0 0 0 19,472 0 0 0 0 19,472 0 0 0 0 19,472 0 0 0 0 0 11,000 0 0 33 2 24 11,057 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											0
Osmium tetroxide											0
Osmium tetroxide											0 0
Osmium tetroxide											0
95				Ü	Ů	11,000	Ů			11,007	
980	Osmium tetroxide		NA	NA	NA	NA	NA	NA	NA	NA	NA
98n											
990 No reports 99n 0 0 0 0 0 37,606 0 0 37,606 0 000 No reports 000 0 0 0 0 47,912 0 9 47,921 0 * Oxydemeton 88 NA			•								
99n											
000 00n No reports 00n 0 0 0 47,912 0 9 47,921 0 * Oxydemeton 88 NA MA NA			•	0	0	0	37,606	0	0	37 606	0
Oxydemeton 88 NA NA				V	Ŭ	Ü	37,000	· ·		37,000	
* Oxydemeton 88 NA			•	0	0	0	47,912	0	9	47,921	0
980	* Oxydemeton		NA	NA	NA	NA		NA			NA
98n No reports 990 0 0 0 0 0 0 0 0 0 0 0 99n No reports 000 0 0 0 0 0 0 0 0 0 0	methyl										0
990 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0	0	0	0	0	0	0	0
99n No reports 000 0 0 0 0 0 0 0 0 0						0		^	^	_	
000 0 0 0 0 0 0 0				U	U	U	U	0	0		0
				0	0	0	0	0	0	0	0
00n No reports				3		3		· ·		ľ	

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

 $^{^{\}star\star}$ Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} PBT chemical added to list for 2000 reporting year. See Chapter 3 for more information.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
19666-30-9 *	Oxydiazon	88	NR	NR	NR	NR	NR	NR	NR	NR
		95 98o	3 5	665 1,160	0	0	0	665 1,160	0 750	665 1,910
		980 98n	No reports	1,100	0	U	U	1,100	/30	1,910
		99o	6	770	0	0	0	770	2,207	2,977
		99n	No reports 5	900	0	0	0	900	1.502	2 402
		00o 00n	No reports	900	0	U	U	900	1,502	2,402
42874-03-3 *	Oxyfluorfen	88	NR	NR	NR	NR	NR	NR	NR	NR
		95	2	87	3	0	0	90	0	90
		980 98n	2 No reports	10	0	0	0	10	0	10
		990	2	1,305	0	0	0	1,305	0	1,305
		99n	1	0	0	0	17,690	17,690	0	17,690
		00o	3	10 0	0	0	16.112	10	1,297 0	1,307
10028-15-6	Ozone	00n 88	NR	NR	NR	0 NR	16,113 NR	16,113 NR	NR	16,113 NR
		95	29	571,182	0	0	0	571,182	0	571,182
		980	36	657,045	0	0	0	657,045	0	657,045
		98n 99o	2 37	3 631,963	0	0	0 5	3 631,968	0	631,968
		99n	2	1	0	0	0	1	0	1
		00o	41	840,789	0	0	0	840,789	0	840,789
123-63-7	Paraldehyde	00n 88	3 ND	500 NR	0 NR	0 NR	0 NR	500 NR	0 NR	500 NR
123-03-7	Paraidenyde	95	NR 2	33	0	0	0	33	0	33
		98o	3	26	0	0	0	26	0	26
		98n	1	0	0	0	0	0	0	0
		99o 99n	3	31 23	71 1	0	0	102 24	0 268	102 292
		00o	2	33	0	0	0	33	0	33
	_	00n	4	5	5	0	0	10	0	10
1910-42-5 *	Paraquat dichloride	88 95	NR 4	NR 1,000	NR 0	NR 0	NR 0	NR 1,000	NR 0	NR 1,000
	dicilioride	980	3	500	0	0	0	500	0	500
		98n	No reports							
		990	3	0	0	0	0	0	0	0
		99n 00o	No reports 3	0	0	0	0	0	0	0
		00n	No reports		· ·	· ·	V	· ·	Ů	Ü
56-38-2 *	Parathion	88	13	3,265	750	0	250	4,265	3,959	8,224
		95 98o	2	0	0	0	0	0	0	0
		980 98n	1	0	0	0	0	0	85	85
		990	1	0	0	0	0	0	0	0
		99n	2	0	0	0	0	0	28	28
		00o 00n	1 2	0	0	0	0	0	0	0
		UUII	2	U	0	0	0	U	U	0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	eled	Energy R	ecovery	Tr	eated	Quantity	Total	Non-Produc-
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Released On-and Off-site Pounds	Production- related Waste Managed Pounds	tion-related Waste Managed Pounds
Oxydiazon	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	3,012	0	0	0	2,400	100	611	6,123	0
	98o	28,500	0	0	0	960	287	900	30,647	0
	98n 99o	No reports 31,000	0	0	0	1,000	4,092	4,641	40,733	0
	990 99n	No reports	U	U	U	1,000	4,092	4,041	40,733	U
	00o	36,300	0	0	0	780	440	5,393	42,913	0
	00n	No reports							ĺ	
Oxyfluorfen	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	130	15,093	90	15,313	0
	980	0	0	0	0	2,800	2,900	1	5,701	0
	98n 99o	No reports 0	0	0	0	1,300	15,599	2	16,901	0
	990 99n	0	0	0	0	0	0	17,690	17,690	0
	00o	0	0	0	0	1,800	14,411	2	16,213	0
	00n	0	0	0	0	0	0	16,113	16,113	0
Ozone	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	2,402,564	0	569,989	2,972,553	0
	98o	0	0	0	0	2,918,204	0	655,951	3,574,155	0
	98n 99o	0	0	0	0	0 2,629,193	0	662,835	3,292,028	0
	990 99n	0	0	0	0	2,029,193	0	1	3,292,028	0
	00o	0	0	0	0	3,155,398	0	840,596	3,995,994	0
	00n	0	0	0	0	0	0	292	292	0
Paraldehyde	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	47,460	11	250,000	0	33	297,504	0
	980	0	0	18,414	7	140,002 0	0	26	158,449	0
	98n 99o	0	0	0 43,482	0	110,445	0 8	0 102	0 154,037	0
	99n	0	0	0	0	299,520	0	289	299,809	0
	00o	0	0	26,172	5	190,000	0	33	216,210	0
	00n	0	0	0	0	178,343	858	5	179,206	0
Paraquat	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
dichloride	95	68	0	0	0	0	170	206	444	0
	980 98n	0 No reports	0	0	0	0	6	112	118	0
	990	0	0	0	0	0	10	0	10	0
	99n	No reports	v	Ŭ	Ŭ	· ·	10	Ŭ	10	Ŭ
	00o	0	0	0	0	0	10	0	10	0
	00n	No reports								
Parathion	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	0	0	0	0
	980 98n	0	0	0	0	0 32,638	0	0 85	0 32,723	0
	9811	0	0	0	0	32,038	0	0	32,723	0
	99n	0	0	0	0	69,806	0	28	69,834	0
	00o	0	0	0	0	0	0	0	0	0
	00n	0	0	0	0	64,761	36	0	64,797	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
1114-71-2	* Pebulate	88 95	NR 2	NR 507	NR 122	NR 0	NR 0	NR 629	NR 811	NR 1,440
		980 98n 990	No reports	520 500	98	0	0	618 500	1,501 500	2,119 1,000
		99n 00o 00n	No reports 1 No reports	500	0	0	0	500	500	1,000
40487-42-1	* Pendimethalin	88	NR	NR	NR	NR	NR	NR	NR	NR
40407 42 1	1 chamicmann	95	5	1,250	250	0	500	2,000	0	2,000
		980	6	3,000	15	0	5	3,020	560	3,580
		98n	3	3	0	0	0	3	123	126
		99o	9	2,465	40	0	5	2,510	5,651	8,161
		99n	2	3	0	0	0	3	111	114
	Not comparable	00o	15	731.54	329.00	0.00	20,675.00	21,735.54	9,467.00	31,202.54
	to prior years***	00n	3	2.00	0.00	0.00	0.00	2.00	88.00	90.00
608-93-5	**** Pentachloro-	88	NR	NR	NR	NR	NR	NR	NR	NR
	benzene	95	NR	NR	NR	NR	NR	NR	NR	NR
		980	NR	NR	NR	NR	NR	NR	NR	NR
		98n	NR	NR	NR	NR	NR	NR	NR	NR
		990	NR	NR	NR	NR	NR	NR NB	NR	NR
		99n 00o	NR 12	NR 91.64	NR 173.85	NR 11.90	NR 2,010.80	NR 2,288.19	NR 348.00	NR 2,636.19
		000 00n	8	70.90	0.00	0.00	612.00	682.90	7.00	689.90
76-01-7	* Pentachloroethane	88	NR	NR	NR	NR	NR	NR	NR	NR
, ,		95	4	1,534	22	0	0	1,556	0	1,556
		980	7	1,550	0	0	0	1,550	0	1,550
		98n	3	60	0	0	0	60	0	60
		99o	7	785	1	0	0	786	2	788
		99n	3	23	1	0	0	24	242	266
		00o	8	1,334	0	0	0	1,334	2	1,336
		00n	3	13	0	0	0	13	0	13
87-86-5	*,** Pentachlorophenol		55	14,029	2,465	20,000	3,717	40,211	518,105	558,316
		95	37	6,256	2,896	0	250	9,402	23,942	33,344
		980 98n	35 9	4,343 287	1,057 250	0	250 240,000	5,650 240,787	23,118 1,940	28,768 242,727
		990	34	1,279	1,276	250 0	240,000	2,805	1,940	4,723
		99n	14	27	1,270	5	98,587	98,620	463	99,083
		000	35	443	1,206	0	25	1,674	1,561	3,235
		00n	9	13	0	250	0	263	401	664
57-33-0	Pentobarbital	88	NR	NR	NR	NR	NR	NR	NR	NR
	sodium	95	No reports							
		98o	1	0	0	0	0	0	0	0
		98n	No reports							
		990	No reports							
		99n	No reports							
		00o	No reports							
	Releases are from Section	00n	No reports		0 11 0 11		" (5 5 0	<i>"</i> " 5 !		

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.

^{****} PBT chemical added to list for 2000 reporting year. See Chapter 3 for more information.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

Pebulate Near	(continuea)		Recy	cled	Energy R	Recovery	T	reated	0	T-4-1	Non Donadon
Second S	Chemical	Year							On-and Off-site	related Waste Managed	Waste Managed
Pendimethalin	* Pebulate		NA	NA	NA	NA			NA		NA
98h No reports 99h 99h 99h 99h 90h 90h											
Pendimethalin				0	0	0	89	2,809	1,523	4,421	0
***Pentiachlorochane 88 NA				0	0	0	0	0	680	680	0
* Pendimethalin				· ·	Ŭ	V		· ·	000	000	Ĭ
**Pendimethalin				0	0	0	0	0	600	600	0
95 300 0 0 0 190,000 6,774 1,498 198,572 56 986 2,000 0 0 0 0 160,000 104,946 2,532 269,478 0 986 0,000 0 0 0 0 180,000 104,946 2,532 269,478 0 990 6,000 0 0 0 0 150,000 64,385 4,555 224,940 0 Not comparable 000 4,000 0,00 0,00 0,00 0,00 32,171 0 115 32,286 0 Not comparable 000 4,000 0,00 0,00 0,00 0,00 19,002 00 31,266,55 684,868,55 0,00 0 100 0,00 0,00 0,00 0,00 0,00 0,0											
986	* Pendimethalin										
98h				-	· ·		,				
990 6,000 0 0 0 0 0 150,000 64,385 4,555 224,940 0 Not comparable 000 4,000.00 0.00 0.00 0.00 0.00 0.00 0.00 32,171 0 115 32,286 0.00 Toprior years**** 000 0.00 0.00 0.00 0.00 0.00 26,145.00 0.00 92.00 26,237.00 0.00 ****Pentachlorobenze** 88											I
Not comparable 00					· ·						I
Not comparable 000				-							
to prior years*** 00n 0.00 0.00 0.00 0.00 0.00 26,145.00 0.00 92.00 26,237.00 0.00 ****Pentachlorobenzee 88 NA	Not comparable										
****Pentachlorobenzene 88	to prior years***	00n		0.00	0.00	0.00					0.00
980	****Pentachlorobenzen	e 88	NA	NA	NA	NA	NA	NA	NA		NA
NR				NR						NR	
NR											
NR											
**Pentachloroethane											
**Pentachloroethane											
* Pentachloroethane										The second secon	
95	* Pentachloroethane										
980 620,000 0 0 0 134,821 47,064 0 60 181,945 0 990 670,000 16,407 0 0 0 5,699,574 43,357 627 6,429,965 168 990 0 0 0 0 0 149,751 0 353 150,104 0 0 0 0 149,751 0 353 150,104 0 0 0 0 149,751 0 353 150,104 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 01111101101011111110										
990 670,000 16,407 0 0 5,699,574 43,357 627 6,429,965 168 99n 0 0 0 0 0 149,751 0 353 150,104 0 000 340,000 5,796 617,910 0 15,204,049 61,082 1,823 16,230,660 0 00n 0 0 0 0 99,691 887 13 100,591 0 *,**Pentachlorophenol 88 NA						0					I
99n 0 0 0 0 1,766 0 13,933 2,456 0 201,817 1,698 301 220,205 0 Pentobarbital 88 sodium 95 No reports 99n No reports 990 No reports 990 No reports 900 No reports 9000 No reports 90000 No reports 9000 No reports 90000 No reports 9000000000000000000000000000000000000		98n	0	0	0	134,821	47,064	0	60	181,945	0
000		99o	670,000	16,407	0	0		43,357	627		168
No reports No				-							
*,***Pentachlorophenol											
95	* * * D										I
980 76,838 227,808 1,680 4,416 4,790 127,928 25,948 469,408 5,813 98n 0 0 0 1,002 0 105,151 5 242,089 348,247 0 990 19,440 4,773 39,000 2,907 7,766 154,328 16,156 244,370 1,760 99n 0 0 0 2,837 21 321,684 674 97,586 422,802 2,000 000 10,766 0 64,416 4,078 419 67,597 2,701 149,977 6,285 00n 0 13,933 2,456 0 201,817 1,698 301 220,205 0 Pentobarbital 88 NA	*,**Pentacnioropnenoi										NA 7
98n											5 813
990											1
99n 0											
No reports Section S		99n							· ·		
Pentobarbital 88 sodium NA NA <td></td> <td>00o</td> <td></td> <td></td> <td></td> <td>4,078</td> <td></td> <td></td> <td></td> <td></td> <td></td>		00o				4,078					
sodium 95 No reports 980 0 0 0 0 0 0 0 0 0 98n No reports 990 No reports 99n No reports 000 No reports 0											
980 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				NA	NA	NA	NA	NA	NA	NA	NA
98n No reports 99o No reports 99n No reports 00o No reports	sodium			_	_		_		_	_	_
990 No reports 99n No reports 000 No reports				0	0	0	0	0	0	0	0
99n No reports 00o No reports											
00o No reports											
		000 00n	No reports								

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.

^{****} PBT chemical added to list for 2000 reporting year. See Chapter 3 for more information.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

Communication							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
79-21-0	*	Peracetic acid	88	8	5,453	55	0	0	5,508	0	5,508
			95	24 27	7,847	15 5	0	1,144	9,006	0	9,006
			980 98n	No reports	8,330	3	0	1,150	9,485	0	9,485
			99o	28	13,557	755	0	1,095	15,407	0	15,407
			99n	No reports	0.422	_	0	2.705	11 222	0	11 222
			00o 00n	30	8,422 0	5	0	2,795 0	11,222	0	11,222 0
594-42-3	*	Perchloromethyl	88	NR	NR	NR	NR	NR	NR	NR	NR
		mercaptan	95	2	541	0	0	0	541	0	541
			980 98n	3 No reports	894	0	0	0	894	0	894
			990	3	899	0	0	0	899	0	899
			99n	No reports	000						000
			00o 00n	3 No reports	820	0	0	0	820	0	820
52645-53-1	*	Permethrin	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	13	1,299	37	0	250	1,586	751	2,337
			980 98n	18 1	4,435 0	7 0	0	0	4,442 0	17,549 0	21,991 0
			990	19	2,593	0	0	0	2,593	1,004	3,597
			99n	3	0	0	0	31,000	31,000	9	31,009
			00o 00n	20	1,581 0	7 0	0	0	1,588 0	1,000 0	2,588
85-01-8		Phenanthrene	88	1 NR	NR	NR	NR	NR	NR	NR	0 NR
			95	36	72,633	19	0	4,008	76,660	74,560	151,220
			98o	68	238,895	214	0	77,577	316,686	80,258	396,944
			98n 99o	10 77	26,006 253,888	0 172	0	0 15,800	26,006 269,860	606 107,667	26,612 377,527
			99n	11	3,577	0	0	59,013	62,590	10,682	73,272
			00o	85	107,515	876	0	715	109,106	28,414	137,520
108-95-2	*	Phenol	00n 88	10 635	8 10,712,736	259,230	4,661,319	15,198 1,882,485	15,206 17,515,770	500 2,536,030	15,706 20,051,800
100-73-2		THEHOI	95	761	9,369,394	70,986	3,823,235	174,581	13,438,196	1,327,795	14,765,991
			98o	786	8,997,533	60,749	1,648,446	436,654	11,143,382	1,250,769	12,394,151
			98n 99o	32 765	1,627 7,723,438	1,277 45,772	432,901 1,575,395	67,000 1,419,139	502,805 10,763,744	6,204 1,304,542	509,009 12,068,286
			990 99n	30	12,721	45,772	267,782	19,590	300,099	7,891	307,990
			00o	751	6,289,621	42,426	2,045,999	142,653	8,520,699	1,008,925	9,529,624
26002 00 2	46	Dl 4l'	00n	31	2,070	6,044	423,355	73,607	505,076	37,335	542,411
26002-80-2	T	Phenothrin	88 95	NR 1	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0
			980	2	0	0	0	0	0	0	0
			98n	No reports			-	_		_	_
			99o 99n	3 No reports	0	0	0	0	0	0	0
			000	3	10	0	0	0	10	0	10
			00n	No reports							

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recy	cled	Energy 1	Recovery	Т	reated	Oventity	Total	Non Duoduo
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
Peracetic acid	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	13,833	0	0	0	12,884	12,396	8,889	48,002	0
	98o	0	0	0	0	47,536	17,732	9,971	75,239	0
	98n 99o	No reports 0	0	0	0	20,329	5,860	27,481	53,670	(
	99n	No reports	U	V	· ·	20,327	3,000	27,401	33,070	
	00o	0	0	0	0	94,229	20,424	26,235	140,888	C
	00n	0	0	0	0	0	0	0	0	0
Perchloromethyl	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
mercaptan	95	0	0	0	0	540	0	541	1,081	0
	980 98n	0 No reports	0	0	0	120,000	15	891	120,906	(
	990	0	0	0	0	112,000	8	898	112,906	0
	99n	No reports	· ·	Ů	Ü	112,000	O	070	112,500	
	00o	0	0	0	0	156,000	6	820	156,826	C
	00n	No reports								
Permethrin	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	5	651	665	543	1,864	0
	980 98n	0	0	0	0	277 10,538	22,529	5,379 0	28,185 10,538	(
	990	0	0	0	0	215	17,999	4,383	22,597	
	99n	0	0	0	0	26,033	0	31,235	57,268	
	00o	0	0	0	0	3,373	22,664	1,672	27,709	
	00n	0	0	0	0	10,774	273	0	11,047	(
Phenanthrene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	162,334	1,190	35,001	197,478	1,123,105	2,410	153,880	1,675,398	42,526
	980 98n	658,266 0	98,267	53,336 0	165,155 32,000	526,904 234,397	170,536	341,494 27,212	2,013,958 293,609	7,312
	9811 990	1,082,986	0 83,544	340,620	216,420	43,339	0 112,080	391,635	2,270,624	(
	99n	0	0	0	33,800	347,738	0	73,753	455,291	ĺ
	00o	924,954	534,836	101,300	130,031	676,678	142,140	134,132	2,644,071	10
	00n	0	0	0	10,500	295,222	0	16,008	321,730	(
Phenol	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	41,534,425	556,968	28,742,254	3,686,272	34,989,078	6,364,238	14,554,619	130,427,854	72,165
	980 98n	42,421,572 0	133,242	32,544,546 0	4,372,598 4,914,898	26,228,029 4,715,602	5,249,883	11,988,355	122,938,225 10,203,558	49,180
	9811 990	41,856,467	593,038	30,395,466	3,667,756	28,164,654	1,557 6,289,074	571,501 10,797,995	121,764,450	7,029
	99n	6,895	0	627	405,878	2,281,090	8,770	306,352	3,009,612	7,025
	00o	58,342,789	1,025,878	23,115,084	7,509,854	28,795,968	6,172,241	9,634,808	134,596,622	1,848
	00n	7,073	0	4,455	560,407	1,818,001	142,673	550,983	3,083,592	12
Phenothrin	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	0	0	0	0
	980	O No nomenta	0	0	0	0	0	0	0	C
	98n 99o	No reports 0	0	0	0	0	0	0	0	0
	990 99n	No reports	U	0	U		Ü	U	l "	
	00o	0	0	0	0	0	5,031	20	5,051	0
	00n	No reports					,		<u> </u>	

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
95-54-5	1,2-Phenylene- diamine	88 95 980 98n 990 99n 000	NR 8 7 1 7 No reports 8	NR 977 528 37 518	NR 41,100 51 0 30	NR 0 0 0 0	NR 2,176 0 0 4,033	NR 44,253 579 37 4,581 4,132	NR 31 1,631 10 7	NR 44,284 2,210 47 4,588
108-45-2	1,3-Phenylene- diamine	00n 88 95 980 98n 990 99n 000 00n	1 NR 20 23 2 20 1 21	31 NR 6,621 8,878 37 2,358 0 3,062 31	0 NR 43,343 722 0 237 0 179	0 NR 0 0 0 0 0	0 NR 63,153 18,668 0 31,534 0 38,980	31 NR 113,117 28,268 37 34,129 0 42,221	0 NR 80 20,549 10 37 0 2,138	31 NR 113,197 48,817 47 34,166 0 44,359 31
106-50-3	p-Phenylene- diamine	88 95 980 98n 990 99n 000 00n	13 10 12 No reports 11 No reports 10	113,890 4,440 1,517 1,781 9,020 31	826 856 114 184 93 0	4,716 0 0 0	0 653 0 1,100 954	119,432 5,949 1,631 3,065 10,077 31	64,452 0 1,816 2,978 2,566 0	183,884 5,949 3,447 6,043 12,643 31
615-28-1	1,2-Phenylene- diamine dihydrochloride	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
624-18-0	1,4-Phenylene- diamine dihydrochloride	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
90-43-7	* 2-Phenylphenol	88 95 980 98n 990 99n 000 00n	15 17 14 1 19 1 18 No reports	10,630 27,063 23 0 14 0 260	480 10 20 0 10 0	0 0 0 0 0 0	0 5 250 0 253 0	11,110 27,078 293 0 277 0 270	250 5,656 1,363 0 1,755 0 1,552	11,360 32,734 1,656 0 2,032 0 1,822

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(Commueu)		Recyc	eled	Energy R	Recovery	T	reated	0	T-4-1	Nam Baradara
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
1,2-Phenylene-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
diamine	95	0	0	0	0	504,896	7,316	44,052	556,264	320
	98o	0	0	0	0	176,437	50,690	2,208	229,335	0
	98n 99o	0	0	0	0	0 178,620	0 47,156	37 4,588	37 230,364	0
	99n	No reports	U	U	U	170,020	47,130	7,500	250,504	O O
	00o	0	0	0	0	121,018	48,077	4,132	173,227	0
	00n	0	0	0	0	134,813	0	31	134,844	0
1,3-Phenylene-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
diamine	95	0	0	0	493	676,332	134,187	112,936	923,948	0
	980 98n	650 0	114,558 0	0	2,300 0	674,437 12,604	1,734,329 0	46,389 37	2,572,663 12,641	1,520 0
	990	760	0	0	2,901	256,562	1,730,750	35,231	2,026,204	0
	99n	0	0	0	0	19,738	0	0	19,738	0
	00o	290	0	0	3,052	201,990	1,285,245	40,208	1,530,785	0
	00n	0	0	0	0	134,819	0	31	134,850	0
p-Phenylenediam		NA	NA	NA	NA	NA	NA	NA	NA	NA
	95 98o	0	0	0	0	364,868	20,082	5,757	390,707	$0 \\ 0$
	980 98n	No reports	U	0	111	337,520	66,661	3,045	407,337	U
	99o	0	0	0	8	413,800	104,497	4,093	522,398	0
	99n	No reports	Ü	Ŭ	Ü	.12,000	10.,.,,	.,055	022,000	Ů
	00o	0	0	0	93	260,417	30,873	11,268	302,651	0
	00n	0	0	0	0	134,811	0	31	134,842	0
1,2-Phenylene-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
diamine dihydrochloride	95 98o	No reports No reports								
umydroemoride	98n	No reports								
	99o	No reports								
	99n	No reports								
	00o	No reports								
	00n	No reports								
1,4-Phenylene-	88	NA No sements	NA	NA	NA	NA	NA	NA	NA	NA
diamine dihydrochloride	95 98o	No reports No reports								
umydroemoride	98n	No reports								
	990	No reports								
	99n	No reports								
	00o	No reports								
* 2 Dharritin 1	00n	No reports	NT A	NT A	NT A	NT A	NIA	%T ▲	NT A	NT A
* 2-Phenylphenol	88 95	NA 0	NA 0	NA 530	NA 0	NA 1,027,544	NA 2,104	NA 32,551	NA 1,062,729	NA 0
	93 980	197	0	300	0	120,000	332	456	1,002,729	0
	98n	0	0	0	0	0	0	0	0	0
	99o	0	0	1	0	125,000	2,970	313	128,284	0
	99n	0	0	0	0	0	0	0	0	0
	00o	0	0	1	0	6,300	2,574	922	9,797	0
	00n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
57-41-0	**	Phenytoin	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	1	0	0	0	0	0	19,300	19,300
			980 98n	1 1	1 3	0	0	0	1 3	7,510 143	7,511 146
			990	1	1	0	0	0	1	9,400	9,401
			99n	No reports						ĺ	
			00o	1	255	0	0	0	255	12,600	12,855
75-44-5		Phosgene	00n 88	No reports	21,603	500	250	0	22,353	480	22,833
13-44-3		rnosgene	95	29	15,894	0	5	0	15,899	0	15,899
			98o	34	20,247	0	0	3	20,250	0	20,250
			98n	No reports							
			990	31	16,673	0	0	0	16,673	0	16,673
			99n 00o	2 28	3 15,950	0	0	0	3 15,950	93 0	96 15,950
			00n	1	0	250	0	0	250	0	250
7803-51-2	*	Phosphine	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	3	1,491	0	0	0	1,491	0	1,491
			980 98n	No mamanta	38,368	0	0	0	38,368	0	38,368
			990	No reports 5	54,385	0	0	0	54,385	0	54,385
			99n	2	3	0	0	0	3	92	95
			00o	5	85,227	0	0	0	85,227	0	85,227
7722 14 0	*	Discoules	00n	1	20.608	11 222	0	2 202 674	2.025.604	105.012	4 120 (17
7723-14-0	*	Phosphorus (yellow or white)	88 95	73 53	20,608 28,621	11,322 3,661	0	3,893,674 1,871,801	3,925,604 1,904,083	195,013 23,650	4,120,617 1,927,733
		(jenow or winte)	98o	51	23,590	3,761	0	2,273,118	2,300,469	7,637	2,308,106
			98n	3	14	0	0	0	14	568	582
			99o	54	9,998	4,995	0	2,715,672	2,730,665	6,739	2,737,404
			99n 00o	3 48	75,125 2,919	0 3,584	0	0 979,571	75,125 986,074	108 11,912	75,233 997,986
			000 00n	1	2,919	0	0	0	0	0	997,980
85-44-9		Phthalic anhydride	88	180	549,909	1,040	0	1,265	552,214	3,976,682	4,528,896
			95	184	604,993	711	0	674	606,378	76,916	683,294
			980 98n	163	303,603 21	193 0	31,039	0	303,796 31,060	3,827,768	4,131,564
			990	6 153	276,527	67	0	300	276,894	386 2,954,964	31,446 3,231,858
			99n	7	538	1	0	7,640	8,179	6,099	14,278
			00o	157	244,046	250	0	6,032	250,328	3,321,300	3,571,628
1010 02 1	*	D: -1	00n	9 ND	18 ND	0	5	75,477	75,500	462	75,962
1918-02-1	T	Picloram	88 95	NR 2	NR 220	NR 1	NR 0	NR 0	NR 221	NR 0	NR 221
			98o	2	460	380,006	0	0	380,466	0	380,466
			98n	No reports							
			99o	2	2,800	133,010	0	0	135,810	0	135,810
			99n 00o	No reports 2	2,388	150,500	0	9,000	161,888	0	161,888
			000 00n	No reports	2,388	130,300	0	9,000	101,008	0	101,008
			0.011	- 10 10ports							

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

<u>(-</u>	эниниеи)		Recy	cled	Energy l	Recovery	Tì	reated	Oventity	Total	Non Bradua
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
**	Phenytoin	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	0	0	0	19,000	19,000	0
		98o	0	0	0	0	140	15,000	7,500	22,640	0
		98n 99o	0	0	0	0	20,629 152	0 17,500	146 9,400	20,775 27,052	0
		99n	No reports	U	U	U	132	17,500	9,400	27,032	
		00o	0	0	0	0	130	4,300	12,600	17,030	0
		00n	No reports	Ť				.,	,	1,,,,,	
	Phosgene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	430,034	0	15,138,316	2,414	15,867	15,586,631	7
		98o	3,173,304	0	0	330	7,417,424	735	20,288	10,612,081	43
		98n	No reports	0	0	0	11 220 (20	5.42	16 440	21 507 021	22
		99o 99n	10,150,418 0	0	0	0	11,339,630 112,537	543 0	16,440 95	21,507,031 112,632	33
		9911 00o	6,180,000	0	0	0	12,439,482	4,580	17,332	18,641,394	31
		00n	0,100,000	0	0	0	86,407	0	24	86,431	0
*	Phosphine	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	0	0	0	2,491	2,491	10
		98o	0	0	0	0	328,000	0	38,368	366,368	135
		98n	No reports								
		990	0	0	0	0	385,101	0	54,385	439,486	0
		99n 00o	0 0	0	0	0	54,236 309,815	0	95 85,217	54,331 395,032	0
		000 00n	0	0	0	0	37,392	0	05,217	37,392	0
*	Phosphorus	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	(yellow or white)	95	1,091	26,089	0	0	5,052	147,342	1,929,173	2,108,747	1,077
	,	98o	1	236,289	0	0	900,878	1,235	2,306,947	3,445,350	4,400
		98n	0	0	0	0	80,274	0	576	80,850	0
		99o	1	202,852	0	0	583,780	2,671	2,737,121	3,526,425	1
		99n	75,121	0	0	0	19,836	0	112	95,069	0
		00o 00n	0	92,946 0	0	0	1,221,607 0	1,090 0	992,232 0	2,307,875	0
	Phthalic anhydride	88	NA	NA	NA	NA	NA	NA	NA	NA NA	NA NA
	i illiane amiyanae	95	421,574	1,317	2,420,922	4,951,573	18,689,501	446,526	670,336	27,601,749	26,158
		98o	169,533	49,603	3,110,037	2,975,259	16,603,832	560,162	4,128,871	27,597,297	15,046
		98n	0	0	0	13,502	177,000	0	31,446	221,948	0
		99o	79,831	29,939	2,993,912	1,871,113	15,571,615	153,837	3,202,510	23,902,757	72,439
		99n	0	0	0	33,034	322,550	492	12,199	368,275	5
		00o	141,428	85,316	2,881,336	1,227,541	13,234,639	589,157	2,887,606	21,047,023	3,090
*	Picloram	00n	0	0 NA	172	734 NA	279,428	1,070	75,884	357,288 NA	0
,	1 101014111	88 95	NA 0	NA 0	NA 0	NA 0	NA 23,208	NA 0	NA 221	23,429	NA 0
		98o	0	0	0	0	59,000	0	380,006	439,006	0
		98n	No reports	3		Ü		J.	2 30,000	.55,000	
		99o	0	0	0	0	51,940	280,000	136,010	467,950	0
		99n	No reports								
		00o	0	0	0	0	48,470	340,000	160,508	548,978	0
		00n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

(000							On-site Releases	ı		Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
88-89-1		Picric acid	88 95	5 9	252 221	251 0	1,362,180 49,256	250 0	1,362,933 49,477	0	1,362,933 49,477
			980 98n	8 No reports	0	1	96,222	0	96,223	0	96,223
			990 99n	8 No reports	0	1	129,398	0	129,399	0	129,399
			00o 00n	9 No reports	0	274	106,784	0	107,058	0	107,058
51-03-6	*	Piperonyl butoxide		NR	NR	NR	NR	NR	NR	NR	NR
01 00 0		1 iperony i o acomide	95	12	775	0	0	0	775	750	1,525
			98o	12	501	0	0	0	501	0	501
			98n	No reports	1 005				4 00 5		4.005
			99o 99n	12	1,005 0	0	0	0	1,005 0	0	1,005 0
			99n 00o	1 12	1,001	144	0	0	1,145	0	1,145
			000 00n	1	0	0	0	0	0	0	0
29232-93-7	*	Pirimiphos methyl	88	NR	NR	NR	NR	NR	NR	NR	NR
		r · · · · · ·	95	No reports							
			98o	No reports							
			98n	No reports							
			99o	1	1	0	0	0	1	0	1
			99n	No reports							
			00o	1	5	0	0	0	5	0	5
			00n	No reports							
	**	Polybrominated	88	1	250	0	0	0	250	0	250
		biphenyls	95	2 2	0	0	0	0	0	0	0
			98o 98n	No reports	0	U	Ü	0	0	0	U
			990	No reports	0	0	0	0	0	0	0
			99n	No reports	U	O	Ü	Ü	Ü	· ·	U
			00o	No reports							
			00n	No reports							
	**	Polychlorinated	88	NR	NR	NR	NR	NR	NR	NR	NR
		alkanes	95	72	23,250	6,211	0	5	29,466	197,607	227,073
			98o	69	4,085	4,131	0	0	8,216	109,932	118,148
			98n	2	0	0	0	0	0	0	0
			990	66	5,788	4,805	0	0	10,593	110,943	121,536
			99n 00o	3	6.480	5 706	0	16,065 0	16,065	8,713	24,778
			~~	60	6,489	5,706	0	0	12,195 350	94,105 16,794	106,300
1336-36-3	* **	Polychlorinated	00n 88	120	350	10	0	752	768	410,996	17,144 411,764
1000 0000	,	biphenyls	95	9	0	0	0	0	0	34,432	34,432
		(PCBs)	98o	7	0	0	0	134,160	134,160	135	134,295
		` /	98n	14	446	251	5	3,607,976	3,608,678	4,192	3,612,870
			99o	8	0	0	0	0	0	108	108
			99n	15	531	2	0	10,164,476	10,165,009	1,533	10,166,542
		Not comparable	00o	123	4,837.79	26.25	0.00	22,851.40	27,715.44	22,662.02	50,377.46
		to prior years***	00n	48	1,016.37	2.57	0.60	1,406,035.80	1,407,055.34	3,484.05	1,410,539.38

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commueu)		Recy	cled	Energy l	Recovery	Т	reated	0	T-4-1	Non Burden
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
Picric acid	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	53,393	2	1,261,618	0	49,477	1,364,490	0
	980 98n	0 No reports	0	129,412	12,941	1,627,444	0	96,223	1,866,020	0
	990	0	0	582	0	1,582,234	0	129,399	1,712,215	0
	99n	No reports						<i>'</i>		
	00o	0	0	13,597	3	2,132,561	0	107,058	2,253,219	0
* Piperonyl butoxide	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
1 iperonyi butoxide	95	0	0	0	5	0	16,290	1,099	17,394	0
	98o	0	0	0	0	0	3,412	426	3,838	0
	98n	No reports			^	_	2 422			
	99o 99n	0	0	0	0	0 21,382	3,432	595 0	4,027	0
	99n 00o	0	0	0	0	21,362	11,802	712	21,382 12,514	0
	00n	0	0	0	0	21,362	0	0	21,362	0
* Pirimiphos methyl		NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	No reports								
	980 98n	No reports No reports								
	990	0	0	0	0	0	0	1	1	0
	99n	No reports								
	00o	0	0	0	0	0	0	1	1	0
** Polybrominated	00n 88	No reports	NA	NA	NIA	NA	NIA	NA	NA	NA
biphenyls	95	NA 0	2,720	0	NA 0	0	NA 0	0	2,720	0
orphony is	98o	0	1,000	0	0	0	0	0	1,000	0
	98n	No reports								
	99o	0	448	0	0	0	0	0	448	0
	99n 00o	No reports No reports								
	00n	No reports								
** Polychlorinated	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
alkanes	95	229,803	208,674	0	137,632	335,520	574,977	242,026	1,728,632	0
	980 98n	110,100 0	469,915 0	32,400 0	89,093 0	36,201 11,325	232,498 846	145,365 0	1,115,572 12,171	628 0
	990	127,200	425,913	28,000	94,229	340	227,335	137,900	1,040,917	0
	99n	0	0	0	0	29,848	0	24,823	54,671	0
	00o	120,000	278,554	0	77,643	2,288	242,816	104,572	825,873	0
* ** Dalvahlaninatad	00n	0	0 N A	0	1,466	46,140	151	17,144	64,901	0
*,**Polychlorinated biphenyls	88 95	NA 0	NA 0	NA 0	NA 0	NA 0	NA 64,494	NA 8,242	NA 72,736	NA 0
(PCBs)	98o	0	0	0	0	0	261,979	0,212	261,979	1
, ,	98n	0	140,018	0	0	8,446,718	428,113	3,626,637	12,641,486	0
	99o	0	0	0	0	0	644,531	0	644,531	111
Not comparable	99n 00o	0 358.00	92,003 242.20	0 1,359.00	0 37.00	11,690,585 21,463.41	388,219 81,375.89	6,629,574 48,618.91	18,800,381 153,454.41	0 22,122.41
to prior years***	000 00n	0.00	510.45	51.77		1,884,547.00	207,409.92	1,432,595.88	13,535,595.02	0.11
F 52 / 2222					.,	,,	, =	, - ,,,,,,,,	. , ,	

Note: Data from Section 8 (Current Year) of Form R.

^{980, 990} and 000 are data from original industries; 98n, 99n and 00n are data from new industries.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commac							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
	**	Polycyclic	88	NR	NR	NR	NR	NR	NR	NR	NR
		aromatic	95	162	453,141	4,995	0	39,556	497,692	1,226,135	1,723,827
		compounds	980	191	1,436,140	1,987	0	169,011	1,607,138	1,548,853	3,155,991
			98n	79	1,377	21	0	115,530	116,928	3,206	120,134
			99o	201	1,319,036	1,720	0	16,958	1,337,714	2,072,386	3,410,100
		Not comparable	99n 00o	85 1 277	41,139 1,850,087.02	43 7,185.29	10,000.00	186,055 46,625.58	227,237 1,913,897.89	6,931 2,859,628.61	234,168 4,773,526.50
		to prior years***	000 00n	1,377 807	24,031.32	10,420.54	0.00	263,949.84	298,401.70	165,058.20	463,459.91
7758-01-2	**	Potassium	88	NR	24,031.32 NR	10,420.34 NR	NR	203,949.84 NR	290,401.70 NR	NR	403,439.91 NR
,,00 01 2		bromate	95	1	5	0	0	0	5	0	5
			980	4	10	0	0	0	10	0	10
			98n	No reports							
			990	2	5	0	0	0	5	0	5
			99n	No reports							
			00o	3	505	0	0	0	505	750	1,255
120 02 0	*	D	00n	No reports	ND	ND	ND	NID	ND	ND	ND
128-03-0	*	Potassium	88	NR	NR 224	NR 10 170	NR	NR	NR	NR	NR
		dimethyldithio- carbamate	95 98o	11 19	224 533	10,170 43,088	0	0 5	10,394 43,626	0 5	10,394 43,631
		Carbaniaic	98n	No reports	555	43,000	U	3	43,020	3	45,051
			990	20	10,523	25,567	0	5	36,095	676	36,771
			99n	No reports	10,020	20,007	ŭ		20,052	0,0	30,771
			00o	14	16,792	10,394	0	0	27,186	0	27,186
			00n	No reports							
137-41-7	*	Potassium N-	88	NR	NR	NR	NR	NR	NR	NR	NR
		methyldithio-	95	3	35	0	0	0	35	0	35
		carbamate	98o	5	0	0	0	0	0	0	0
			98n	No reports 5	10	5 (90	0	0	5.000	0	5 (00
			99o 99n	No reports	10	5,680	0	U	5,690	U	5,690
			000	4	5	5	0	0	10	23,377	23,387
			000 00n	No reports	3	3	O	O	10	23,377	23,367
41198-08-7	*	Profenofos	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	1	0	0	0	0	0	0	0
			98o	1	10	0	0	0	10	0	10
			98n	No reports							
			990	1	10	0	0	0	10	0	10
			99n	No reports							
			000	No reports							
7297 10 6	*	Dromotevn	00n 88	No reports NR	ND	NR	ND	ND	ND	NR	NR
7287-19-6		Prometryn	95	NR 6	NR 1,481	159	NR 0	NR 0	NR 1,640	NK 890	2,530
			98o	5	725	8	0	0	733	1,047	1,780
			98n	No reports	723	Ü	v	· ·	,55	1,017	1,700
			990	5	502	4	0	0	506	0	506
			99n	No reports							
			00o	4	533	0	0	0	533	0	533
			00n	No reports							

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988). DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information). For polycyclic aromatic compounds, applies to all polycyclic aromatic compounds reported except benzo(a)phenanthrene, dibenzo(a,e)fluoranthene, benzo(j,k)fluorene, and 3-methylcholanthrene.

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	<i>эниниеи)</i>		Rec	ycled	Energy	Recovery	T	reated	0	T-4-1	Nam Dan dan
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
**	Polycyclic	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	aromatic	95	1,473,048	116,094	10,499,200	59,666	2,502,982	13,833	1,753,630	16,418,453	22,295
	compounds	98o	1,991,915	246,834	3,835,404	270,675	4,698,159	39,251	3,251,727	14,333,965	43,939
		98n	312	216	0	101.020	107,002	1,345	120,939	229,814	106
		99o 99n	3,457,863 59	218,251 2,099	4,126,035 0	101,828 10	3,952,104 640,656	63,574 2,522	3,546,516 233,319	15,466,171 878,665	131,627 331
	Not comparable	000	2,832,036.62	472,196.61	5,764,250.07	198,424.32	15,102,015.80	252,280.11	5,166,367.90	29,787,571.44	36,506.66
	to prior years***	00n	717.27	140,720.70	1,540.48	8,062.34	9,046,998.08	2,319.32	410,607.80	9,610,965.98	27,570.87
**	Potassium bromate		NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	0	0	0	0	0	0	0
		98o	0	0	51,447	1	0	0	13	51,461	0
		98n	No reports								
		99o	0	0	0	0	0	0	10	10	0
		99n 00o	No reports	0	0	0	0	0	1,060	1,060	0
		000 00n	No reports	U	0	U	0	U	1,000	1,000	
*	Potassium	88	NA NA	NA	NA	NA	NA	NA	NA	NA	NA
	dimethyldithio-	95	0	0	0	0	19,317	161,362	10,394	191,073	0
	carbamate	98o	0	0	0	0	23,596	120,325	54,888	198,809	0
		98n	No reports								
		99o	0	0	0	0	42,919	72,363	52,819	168,101	0
		99n	No reports 0	0	0	0	0.504	57.051	27.197	02.041	0
		00o 00n	No reports	0	0	U	8,504	57,251	27,186	92,941	0
*	Potassium N-	88	NA NA	NA	NA	NA	NA	NA	NA	NA	NA
	methyldithio-	95	0	0	0	0	0	0	35	35	0
	carbamate	98o	0	0	0	0	0	0	0	0	0
		98n	No reports								
		99o	0	0	0	0	4,647	0	5,690	10,337	0
		99n	No reports			0			20.000	20.000	
		00o 00n	0 No reports	0	0	0	0	0	30,000	30,000	0
*	Profenofos	88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tiorenoios	95	0	0	0	0	109	0	0	109	0
		98o	0	0	0	0	0	0	7,270	7,270	0
		98n	No reports								
		99o	0	0	0	0	0	0	6,420	6,420	0
		99n	No reports								
		00o	No reports								
*	Dromatryn	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
	Prometryn	95	0	0	0	1NA 1	1,314	7,603	4,028	12,946	0
		98o	0	0	0	0	30,035	38,455	789	69,279	0
		98n	No reports				,	-,			
		99o	0	0	0	0	51,018	6,238	4,342	61,598	0
		99n	No reports								
		00o	0	0	0	0	10,007	21,250	21,776	53,033	0
		00n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information). For polycyclic aromatic compounds, applies to all polycyclic aromatic compounds reported except benzo(a)phenanthrene, dibenzo(a,e)fluoranthene, benzo(j,k)fluorene, and 3-methylcholanthrene.

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

(000000							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
23950-58-5	*	Pronamide	88 95 980 98n 990 99n 000 00n	NR 1 2 2 2 1 2 2	NR 255 255 110 330 2 170	NR 0 0 0 0 1 0	NR 0 0 0 0 0 0	NR 0 0 0 0 0 0	NR 255 255 110 330 3 170 0	NR 0 0 0 0 16 0	NR 255 255 110 330 19 170
1918-16-7	*	Propachlor	88 95 980 98n 990 99n 000 00n	NR 4 4 No reports 2 2 2	NR 331 62 60 21 0	NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NR 0 0 0 0 0	NR 0 0 14,208	NR 331 62 60 14,229 0	NR 777 600 0 10 120	NR 1,108 662 60 14,239 120
1120-71-4	**	Propane sultone	88 95 980 98n 990 99n 000 00n	No reports No reports No reports No reports 2 No reports	5	0	5	0	10	0 0 0 157	3 0 0
709-98-8	*	Propanil	88 95 980 98n 990 99n 000 00n	NR 4 5 1 5 No reports 4 1	NR 2,357 2,505 2 2,010 520 1	NR 250 750 0 750 250	NR 0 0 0 0 0	NR 0 0 0 0 0	NR 2,607 3,255 2 2,760	NR 3,723 11,250 270 26,250 28,500 0	NR 6,330 14,505 272 29,010 29,270
2312-35-8	*	Propargite	88 95 980 98n 990 99n 000 00n	NR 1 3 No reports 3 No reports No reports	NR 426 525 739	NR 0 0 0	NR 0 0 0	NR 0 0 0	NR 426 525 739 551	NR 0 3,546 9,446 1,140	NR 426 4,071 10,185
107-19-7	*	Propargyl alcohol		NR 11 14 2 12 3 10	NR 10,245 15,675 5 9,960 14 3,803 0	NR 0 0 0 0 0 0 0	NR 290,680 418,223 0 545,399 0 1,031,538	NR 0 7,620 0 0 0 0	NR 300,925 441,518 5 555,359 14 1,035,341 0	NR 936 253 0 10,085 152 26,096	NR 301,861 441,771 5 565,444 166 1,061,437

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	eled	Energy R	ecovery	Tr	eated	Quantity	Total	Non-Produc-
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Production- related Waste Managed Pounds	tion-Produc- tion-related Waste Managed Pounds
* Pronamide	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	3,700	0	0	0	0	1,200	260	5,160	0
	98o	5,500	0	0	0	0	2,095	290	7,885	0
	98n	0	0	0	234,265	0	2 202	110	234,375	0
	990 99n	14,000 0	0	0	0	33,000	2,393 0	1,613 15	18,006 33,015	0
	9911 00o	11,000	0	0	0	33,000	1,297	1,047	13,344	0
	00n	0	0	0	0	15,014	789	0	15,803	0
* Propachlor	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	7,270	1,237	8,507	14,000
	98o	0	0	0	0	0	91,800	662	92,462	0
	98n	No reports								
	990	0	0	0	0	0	85,700	660	86,360	0
	99n	0	0	0	0	77,027	0	14,224	91,251	0
	00o 00n	0	0	0	0	95 13,652	900 0	120	1,115	0
** Propane sultone	88	NA	NA	NA	NA	13,032 NA	NA	NA	13,655 NA	NA
r ropane suitone	95	0	0	0	0	16	0	0	16	0
	98o	No reports	Ĭ	ŭ	ŭ		Ŭ	· ·		Ů
	98n	No reports								
	99o	No reports								
	99n	0	0	0	0	129,321	0	165	129,486	0
	00o	No reports								
. D !!	00n	0	0	0	0	103,051	772	1	103,824	0
* Propanil	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95 98o	0 200,000	0	0	0 0	0	402 86,745	4,468 12,552	4,870 299,297	0 50
	98n	200,000	0	0	0	202,192	00,743	272	202,464	0
	990	0	0	0	0	0	270,452	3,357	273,809	50
	99n	No reports	Ŭ	Ů	ŭ	Ů	2,0,.02	3,507	270,000	
	00o	0	0	0	0	0	400,424	1,695	402,119	110
	00n	0	0	0	0	33,794	4	1	33,799	0
* Propargite	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	544	0	4,365	426	5,335	0
	98o	0	0	0	2,216	0	76,189	3,896	82,301	0
	98n	No reports 0	0	0	4.164	255	12 205	ECA	10 200	0
	990 99n	No reports	0	0	4,164	255	13,305	564	18,288	0
	00o	0	0	0	3,240	255	10,397	376	14,268	0
	00n	No reports	U	Ŭ	3,240	255	10,577	370	14,200	Ů
* Propargyl alcohol	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	198,867	344,704	56,027	78,003	301,422	979,023	0
	98o	0	0	60,400	520,327	109,142	41,800	444,545	1,176,214	1
	98n	0	0	0	909	13,178	1,000	2	15,089	0
	990	0	0	13,091	4	94,786	62,376	591,893	762,150	5
	99n	0	0	0	0	137,838	0	159	137,997	0
	00o	32	0	0	0	110	44,757	1,101,028	1,145,927	0
	00n	0	0	0	0	67,879	0	0	67,879	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

•							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
31218-83-4	*	Propetamphos	88 95 980	NR 1 1	NR 500 10	NR 0 0	NR 0 0	NR 0 0	NR 500 10	NR 750 250	NR 1,250 260
			98n 99o 99n	No reports No reports	10	0	0	0	10	250	260
			00o 00n	1 No reports	10	0	0	0	10	750	760
60207-90-1	*	Propiconazole	88	NR	NR	NR	NR	NR	NR	NR	NR
			95 98o	3 5	0 10	0	0	0	0 10	0	0 10
			98n	No reports							
			99o 99n	3 No reports	10	0	0	0	10	0	10
			00o	3	0	0	0	0	0	0	0
	als alsals	1 . 5	00n	No reports							
57-57-8	*,**	beta-Propiolactone	88 95	No reports							
			98o	No reports							
			98n	No reports							
			99o	No reports							
			99n 00o	No reports No reports							
			00n	No reports							
123-38-6	*	Propionaldehyde	88	15	1,267,839	1,156	930	0	1,269,925	0	1,269,925
			95 98o	24 26	263,349 311,153	27,012 6,017	101,432 92,183	0 78	391,793 409,431	0 14	391,793 409,445
			98n	3	192	0,017	92,183	0	192	0	192
			99o	24	426,111	2,604	97,144	0	525,859	331	526,190
			99n	3	11	0	15,576	0	15,587	0	15,587
			00o 00n	30 5	304,516 17	10,878 0	91,235 0	2,277 0	408,906 17	283 167	409,189 184
114-26-1	*	Propoxur	88	5	250	0	0	0	250	250	500
			95	5	5	0	0	0	5	0	5
			980 98n	2	0	0	0	0	0	0 10	0 10
			990	1	0	0	0	0	0	0	0
			99n	1	11	0	0	0	11	10	21
			00o	2 No reports	5	0	0	0	5	0	5
115-07-1		Propylene	00n 88	334	32,200,231	10,003	0	0	32,210,234	3,320	32,213,554
		10	95	355	27,556,169	4,047	0	169	27,560,385	298	27,560,683
			98o	372	16,428,265	3,104	2,870	389	16,434,628	897	16,435,525
			98n 99o	41 386	79,765 13,581,888	0 1,023	0 136,393	0 396	79,765 13,719,700	0 118	79,765 13,719,818
			99n	48	65,839	0	130,393	0	65,839	0	65,839
			00o	390	12,976,081	3,246	27,664	375	13,007,366	18	13,007,384
			00n	42	43,813	0	0	0	43,813	0	43,813

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(continueu)		Recyc	eled	Energy	Recovery	Г	reated	Quantity	Total	Non-Produc-
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Released On-and Off-site Pounds	Production- related Waste Managed Pounds	tion-related Waste Managed Pounds
* Propetamphos	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	0	1,067	1,067	0
	98o 98n	No reports	0	0	U	0	0	482	482	U
	990	0	0	0	0	0	0	490	490	0
	99n	No reports 0	0	0	0	0	0	495	495	0
	00o 00n	No reports	0	0	U	U	U	493	493	U
* Propiconazole	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	1,026	0	1,026	0
	98o 98n	0 No reports	0	0	0	25,000	0	2,943	27,943	0
	99o	0	0	0	0	22,000	0	2,001	24,001	0
	99n	No reports								
	00o 00n	0 No sements	0	0	0	15,000	0	0	15,000	0
*,**beta-Propiolactone		No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
, <u>.</u>	95	No reports								
	98o	No reports								
	98n 99o	No reports No reports								
	990 99n	No reports								
	00o	No reports								
* D : 11.1.1	00n	No reports	274	27.4	27.4	274	274	27.4	27.4	274
* Propionaldehyde	88 95	NA 0	NA 0	NA 898,697	NA 5,565	NA 2,348,820	NA 79,790	NA 387,308	NA 3,720,180	NA 23
	98o	0	0	2,021,614	4,648	5,082,153	46,283	411,365	7,566,063	402
	98n	0	0	0	442,609	3	15	192	442,819	0
	99o	440,000	0	2,311,283	6,236	3,030,972	34,933	518,997	6,342,421	0
	99n 00o	0	0	0 4,639,054	270 4,830	17 30,248,173	0 1,767	15,578 410,764	15,865 35,304,588	0 18
	00n	0	0	0	250	81,183	0	424	81,857	0
* Propoxur	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95 98o	0	0	0	0	0 0	1,081 435	4 0	1,085 435	0
	980 98n	0	0	0	0	0	0	25	25	0
	990	0	0	0	0	0	0	0	0	0
	99n	0	0	0	0	56,411	0	11	56,422	0
	00o 00n	0 No reports	0	0	0	0	39	1	40	0
Propylene	88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	6,713,304	0	463,253,246	3,132,285	254,254,014	80,239	26,865,031	754,298,119	1,008,714
	98o	74,791,416	23,152	456,059,665	2,218	299,247,194	2,896,808	15,058,707	848,079,160	1,239,970
	98n 99o	0 105,899,757	0 28	0 395,331,079	0 10,337,809	14,440 387,957,004	0 1,579,785	79,844 13,454,668	94,284 914,560,130	9 267,570
	99n	0	0	0	0	33,620	0	65,246	98,866	0
	00o	109,032,927	45	313,392,929	71	950,502,439	437,870	12,897,518	1,386,263,799	332,009
	00n	0	0	0	0	796,167	0	43,445	839,612	1

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commu						On-site Releases			Off-site Releases	
CAS Number	Chemi	ical Yea	Total r Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
75-55-8	** Propyl	eneimine 88 95 980 98n	1 7 4 No reports	500 600 385	0 0 5	0 0 0	0 0 0	500 600 390	0 0 5	500 600 395
		990 99n 000 00n	2	104 4 89 0	0 0 0	0 0 0 0	0 0 0 0	104 4 89 0	0 153 0 0	104 157 89 0
75-56-9	*,** Propyle	95 980 98n 990 99n 000	7 119 8 114	3,680,215 839,153 740,027 32 705,048 4 444,921	112,503 29,934 1,124 0 10,847 0 11,652	1,113,780 22,577 1,923 13,380 4,580 10,491 2,100	11,630 4,403 691 0 715 28,649 741	4,918,128 896,067 743,765 13,412 721,190 39,144 459,414	16,626 10,633 5,687 0 5,266 0 6,824	4,934,754 906,700 749,452 13,412 726,456 39,144 466,238
110-86-1	* Pyridir	95 980 98n 990 99n 000 00n	16 52 14	0 251,799 100,190 70,262 697 68,647 899 82,364 1,303	0 2,158 830 1,056 0 1,074 1 904 1,026	0 491,775 532,497 593,199 5 953,995 0 959,200	114,491 1,125 4 0 0 0 0 0 5	114,491 746,857 633,521 664,517 702 1,023,716 900 1,042,473 2,329	0 40,699 433 13,854 2,292 378 52,862 35,648 1,696	114,491 787,556 633,954 678,371 2,994 1,024,094 53,762 1,078,121 4,025
91-22-5	Quinol		34 23 21 1 19 No reports	49,350 11,412 15,415 1 11,813 22,026	502 20 32 0 26	0 13,000 29,350 0 25,205 31,413	896 405 265 0 7	50,748 24,837 45,062 1 37,051 53,471	6,242 3,744 2,553 73 21,715	56,990 28,581 47,615 74 58,766
106-51-4	* Quinor		5 5 7 1 7 3 6	11,300 7,101 482 0 415 24 214 105	140 1,500 1,600 0 1,400 1 1,400 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	11,440 8,601 2,082 0 1,815 25 1,614	0 0 0 0 0 0 161 130	11,440 8,601 2,082 0 1,815 186 1,744
82-68-8	* Quinto		6 10 11 2 14 3 14	1,064 1,424 1,788 10 408 14 1,907 21	0 0 0 0 0 1 0	0 0 0 0 0 0 0	0 800 0 0 0 0 0	1,064 2,224 1,788 10 408 15 1,907	12,625 192 2 0 5,007 15 8,180 250	13,689 2,416 1,790 10 5,415 30 10,087 271

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

			Recyc	eled	Energy R	Recovery	Tr	reated	0	T-4-1	N D d
(Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
** F	Propyleneimine	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95 08-	0	0	0	0	1,433	0	600	2,033	0
		980 98n	No reports	0	0	0	2,788	6	680	3,474	U
		990	0	0	0	0	4,319	0	104	4,423	0
		99n	0	0	0	0	106,854	0	157	107,011	0
		00o	0	0	0	0	2,660	0	90	2,750	0
		00n	0	0	0	0	55,812	0	0	55,812	0
*,**F	Propylene oxide	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95 98o	3,091 1,081,157	0	17,981,778 13,924,312	282,917 79,248	14,410,159 14,404,412	192,373 475,463	1,138,346 754,076	34,008,664 30,718,668	20,197 1,411
		980 98n	1,081,137	0	13,924,312	18,634	40,509	473,403	13,412	72,555	0
		990	508,380	619	12,895,870	13,529	12,248,050	192,824	730,336	26,589,608	1,254
		99n	0	0	0	5,232	58,302	7,414	39,184	110,132	0
		00o	508,380	0	14,595,273	29,398	191,585,137	179,584	536,140	207,433,912	11,256
		00n	0	0	0	0	0	0	37,076	37,076	0
* F	Pyridine	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	4,074,830	14,008	1,713,719	186,855	348,378	483,305	631,040	7,452,135	1,074
		980 98n	616,015 0	0	1,756,718 16,073	470,128 620,143	765,210 1,333,326	720,142 28,086	689,515 2,577	5,017,728 2,000,205	1,109
		990	637,004	8,071	984,135	450,440	681,114	451,088	1,021,864	4,233,716	1,001
		99n	278,231	44	5,645	189,439	1,915,397	598,710	1,020	2,988,486	10
		00o	590,646	10,457	808,220	348,622	677,466	543,528	1,041,171	4,020,110	8
		00n	10	0	7,293	13,648	2,086,009	191,489	2,976	2,301,425	0
(Quinoline	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	1,750	2,243	302,003	22	222,705	16,120	27,181	572,024	252
		980 98n	27,147 0	1,713 0	122,038 0	11,582 0	109,680	961 0	47,741 74	320,862 10,535	300 0
		9811 990	12,831	1,137	87,056	11,353	10,461 135,351	4,200	58,429	310,357	0
		99n	No reports	1,157	07,030	11,555	155,551	4,200	30,429	310,337	Ů
		00o	8,046	0	28,000	3,649	149,410	18,962	56,296	264,363	0
		00n	0	0	0	0	0	0	0	0	0
* (Quinone	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	0	0	179,870	1,328	130,500	30,173	8,601	350,472	0
		980	0	0	1,400 0	17,747	567,300	10,917	2,101	599,465	0
		98n 99o	0	0	340	0 162,544	0 116,001	0 135,984	0 1,805	0 416,674	0
		99n	0	0	0	0	176,005	0	182	176,187	0
		00o	0	0	340	124,080	95,141	164,935	1,734	386,230	0
		00n	0	0	0	0	108,980	771	105	109,856	0
* (Quintozene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	863	0	0	0	0	759,587	2,251	762,701	110
		980	515	0	0	342,800	0	13,168	1,790	358,273	0
		98n 99o	0 2,371	0	0	0 214,728	44,515 0	0 8,126	3 451	44,518 225,676	0 30
		990 99n	2,3/1	0	0	214,728	126,058	0,120	21	126,079	0
		00o	2,299	0	0	296,406	0	6,361	10,333	315,399	0
		00n	0	0	0	262,247	56,876	774	51	319,948	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
76578-14-8	* Quizalofop-ethy		NR	NR	NR	NR	NR	NR	NR	NR
		95	2	6	0	0	0	6	0	6
		98o 98n	No reports	0	0	0	0	0	0	0
		990	1	0	0	0	0	0	0	0
		99n	No reports	_			^	_	_	
		00o 00n	No reports	0	0	0	0	0	0	0
10453-86-8	* Resmethrin	88	NR	NR	NR	NR	NR	NR	NR	NR
		95	2	0	0	0	0	0	0	0
		980	2	0	0	0	0	0	0	0
		98n 99o	No reports	22	0	0	0	22	0	22
		99n	No reports	22	O .	· ·	· ·	22	V	22
		00o	3	0	0	0	0	0	0	0
01 07 2	C1:	00n	No reports	750	0	0	٥	750	750	1.500
81-07-2	Saccharin (manufacturing	88 95	4	750 99	0	0	0	750 99	750 1,500	1,500 1,599
	(manaractaring)	980	2	160	0	0	0	160	940	1,100
		98n	No reports							
		990	2	63	0	0	0	63	940	1,003
		99n 00o	1 2	0 80	0	0	0	0 80	0 100	0 180
		00n	No reports	00	· ·	· ·	Ŭ	00	100	100
94-59-7	*,** Safrole	88	2	500	0	0	0	500	0	500
		95 98o	1	255 10	0	0	0	255 10	0	255 10
		98n	2	0	0	0	0	0	0	0
		990	2	260	0	0	0	260	0	260
		99n	2	21	0	0	6,005	6,026	3,239	9,265
		00o 00n	2 2	260 0	0	0	0	260 0	0	260 0
7782-49-2	* Selenium	88	24	16,282	1,168	0	127,508	144,958	4,367	149,325
		95	15	1,450	92	0	23	1,565	3,501	5,066
		980	15	34,028	58	0	2,010	36,096	15,798	51,894
		98n 99o	11 16	807 69,012	0 285	17,937 0	254,259 3,113	273,003 72,410	185,901 11,509	458,904 83,919
		99n	9	790	0	0	264,804	265,594	531	266,125
		00o	16	61,551	1,019	0	2,540	65,110	3,675	68,785
	C-1i	00n	9	3,930	0	40,246	154,981	199,157	71,753	270,910
	Selenium compounds	88 95	18 40	14,506 61,960	250 2,184	3,400 3,640	45,750 264,759	63,906 332,543	63,226 124,185	127,132 456,728
	vompounds	980	52	74,716	3,373	38,030	360,694	476,813	94,983	571,796
		98n	80	527,766	32,727	8	4,809,151	5,369,652	378,931	5,748,583
		99o 99n	50 73	82,408 508,159	4,106 40,960	33,509	305,342 6,121,824	425,365 6,670,943	94,026 558,772	519,391 7,229,715
		99n 00o	46	69,658	3,814	0 27,699	269,446	370,617	165,300	535,917
		00n	74	507,271	52,234	0	6,940,487	7,499,992	1,592,313	9,092,305

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	cled	Energy R	ecovery	Т	reated	Oventity	Total	Non Bradus
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
* Quizalofop-ethyl	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	0	5	5	0
	980 98n	0 No reports	0	0	0	0	0	0	0	0
	990	0	0	0	0	0	0	0	0	0
	99n	No reports								
	00o	0 No semests	0	0	0	0	0	0	0	0
* Resmethrin	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	0	0	0	0
	980	0	0	0	0	0	0	0	0	0
	98n	No reports	0	0	0	0	46		4.6	
	990 99n	0 No reports	0	0	0	0	46	0	46	0
	00o	0	0	0	0	0	50	0	50	0
	00n	No reports								
Saccharin	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
(manufacturing)	95	0	0	0 0	0	9,700	10	1,600	11,310	74
	980 98n	No reports	0	0	0	7,300	7	1,100	8,407	0
	990	0	0	0	0	6,800	7	1,000	7,807	0
	99n	0	0	0	0	117,930	0	0	117,930	0
	00o	0	0	0	0	2,800	3	174	2,977	3
*,**Safrole	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
, Sanoie	95	0	0	0	0	1	5	0	6	0
	98o	0	0	0	0	0	10	30	40	0
	98n	0	0	0	0	0	0	0	0	0
	990	0	0	0	0	0	10	110	120	0
	99n 00o	0	0	0	0	61,981 0	0 5	9,263 125	71,244 130	0
	000 00n	0	0	0	0	12,805	799	0	13,604	0
* Selenium	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	1,604	4,604	0	0	23	2,271	1,524	10,026	0
	980 98n	0	0	86,174	3,902	156 0	920	45,019 273,341	136,171	0
	990	4	0 800	0 0	0	1,166	185,504 50	81,686	458,845 83,706	47
	99n	0	0	0	0	0	0	265,869	265,869	0
	00o	4,254	10,065	0	0	498	1,103	64,286	80,206	106
0.1	00n	0	9,170	0	0	0	71,633	199,157	279,960	0
Selenium compounds	88 95	NA 590,805	NA 158,278	NA 0	NA 10	NA 2	NA 49,853	NA 356,404	NA 1,155,352	NA 49,259
compounds	98o	595,899	68,632	0	0	2,040	9,743	511,927	1,188,241	76,443
	98n	55,128	1,009	0	0	4	23	5,750,783	5,806,947	0
	99o	574,215	22,862	0	0	2,410	10,343	408,122	1,017,952	109,656
	99n	56,980 600 100	12,004 22,523	0 0	0	0	20 85 430	6,651,292	6,720,296	670,000 29,000
	00o 00n	600,109 25,100	11,906	0	0	0	85,430 67	424,638 8,554,551	1,132,700 8,591,624	29,000
	0011	23,100	11,700	v	J	U U	07	0,227,221	0,371,024	270,000

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

Commue							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
74051-80-2	*	Sethoxydim	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	No reports	10	0	0	0	10	0	10
			980 98n	2	10 0	0	0	0	10 0	0	10 0
			990	2	10	0	0	0	10	0	10
			99n	No reports							
			00o	3	3	0	0	0	3	0	3
7440-22-4	*	Silver	00n 88	No reports 72	47,988	1,654	0	39,510	89,152	8,482	97,634
/440-22-4		Silvei	95	77	9,552	1,054	0	255	9,973	17,676	27,649
			98o	86	11,702	171	2	2,026	13,901	69,054	82,955
			98n	14	60	0	15,380	400,306	415,746	35,826	451,572
			990	84	11,186	96	17,000	2,660	13,942	80,544	94,486
			99n 00o	12 77	894 9,723	0 105	17,000 0	220,096 2,260	237,990 12,088	257,058 7,338	495,048 19,426
			000 00n	9	352	0	19,000	47,759	67,111	3,950	71,061
		Silver compounds	88	46	15,406	8,684	250	11,550	35,890	15,803	51,693
			95	61	15,828	6,289	380	35,325	57,822	7,590	65,412
			98o	64	6,891	5,709	109	76,755	89,464	194,930	284,394
			98n 99o	21 69	847 8,960	676 7,223	140,000 222	4,091,354 64,399	4,232,877 80,804	162,750 32,491	4,395,627 113,295
			990 99n	16	1,309	322	160,000	3,519,852	3,681,483	40,061	3,721,544
			00o	62	9,142	6,439	214	75,555	91,350	30,309	121,659
			00n	17	2,302	289	170,000	3,990,728	4,163,319	297,546	4,460,865
122-34-9	*	Simazine	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	7	4,990	232	0	5	5,227	26,231	31,458
			980 98n	7 No reports	3,321	332	0	0	3,653	4,497	8,150
			990	6	3,928	385	0	0	4,313	2,385	6,698
			99n	No reports	- ,-				,-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,
			00o	6	2,974	367	0	8	3,349	3,418	6,767
		~ "	00n	No reports							
26628-22-8	*	Sodium azide	88 95	NR 14	NR 25.575	NR 200	NR 0	NR 255	NR 36,030	NR 133,837	NR 169,867
			93 980	14	35,575 15,392	200	0	250	15,662	10,891	26,553
			98n	3	13,372	0	0	190,646	190,660	180	190,840
			990	9	5,946	15	0	0	5,961	5,652	11,613
			99n	3	11	0	0	33,542	33,553	318	33,871
			00o	8	3,880	17	0	3	3,900	5,783	9,683
1002 60 0	*	Cadium diaamba	00n	6 ND	17 ND	0 ND	0	34,717	34,734	374	35,108
1982-69-0	*	Sodium dicamba	88 95	NR 3	NR 14,350	NR 0	NR 750	NR 0	NR 15,100	NR 0	NR 15,100
			98o	2	8,560	0	750	0	9,310	0	9,310
			98n	No reports	,						
			99o	2	5,150	0	250	0	5,400	0	5,400
			99n	No reports	7.100		250	^	7.252	500	7.652
			00o	No reports	7,102	0	250	0	7,352	500	7,852
			00n	No reports							

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recy	cled	Energy R	ecovery	Ti	reated	Quantity	Total	Non Duoduo
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
Sethoxydim	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	No reports								
	980	0	0	0	0	0	293	20	313	0
	98n 99o	0	0	0	0	17,391 0	0	0 20	17,391 20	0
	990 99n	No reports	U	U	U	U	U	20	20	0
	000	0	0	0	0	0	965	3	968	0
	00n	No reports	Ŭ	V	Ü	· ·	705	3	700	Ĭ
Silver	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	563,590	1,266,487	0	1	87,462	531	20,608	1,938,679	614
	98o	648,613	1,291,264	0	32	4,917	44,958	235,419	2,225,203	1
	98n	400	0	0	0	0	17	415,721	416,138	0
	990	420,072	2,862,118	0	11	87	40,121	25,250	3,347,659	8
	99n	0	124,430	0	0	0	143,364	237,610	505,404	10
	00o	399,965	1,076,217	0	0	822	745	66,760	1,544,508	2
0'1 1	00n	0	12,388	0	0	0	3,681	66,952	83,021	0
Silver compounds	88	NA	NA	NA	NA	NA	NA	NA	NA 5 470 714	NA 260
	95 98o	344,726 264,091	1,078,082 1,065,831	0	0	3,966,504	24,661 13,062	56,741 444,776	5,470,714 1,840,614	269 5,414
	98n	2,539	1,005,851	0	0	52,854 0	2,396	4,395,711	4,402,597	3,414
	990	3,876,240	1,200,040	0	0	2,090	12,992	287,611	5,378,973	9,970
	99n	612	2,031	0	0	0	651	3,187,191	3,190,485	540,000
	00o	1,509,170	787,839	0	0	2,708	35,951	247,658	2,583,326	21,810
	00n	280	1,201	0	0	0	0	4,092,865	4,094,346	240,000
Simazine	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	150,000	24,000	4,970	178,970	0
	98o	50	0	0	0	68,000	1,500	6,294	75,844	0
	98n	No reports								
	990	50	0	0	0	77,000	8,251	14,154	99,455	0
	99n	No reports	0	0	0	(2,000	200	6 275	(0.712	
	00o 00n	50 No reports	0	0	0	63,000	288	6,375	69,713	0
Sodium azide	88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
Soutum azide	95	190,310	556,000	0	0	93,341	3,906,934	166,060	4,912,645	110
	98o	34,600	440,942	0	0	11,732	590,062	45,526	1,122,862	5
	98n	0	0	0	0	36,074	0	191,601	227,675	0
	990	15,800	148,200	0	0	12,180	297,891	11,616	485,687	3
	99n	0	0	0	0	160,650	16	33,887	194,553	0
	00o	26,800	74,500	0	0	16,423	255,258	3,860	376,841	0
	00n	0	0	0	0	349,823	18	35,106	384,947	0
Sodium dicamba	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	800	15,200	16,000	0
	980	0	0	0	0	414,800	46,680	9,546	471,026	0
	98n 99o	No reports 0	0	0	0	240 202	0	5 400	252 702	
			U	0	0	248,383	0	5,400	253,783	0
	UUn									
	99n 00o	No reports 0	0	0	0	133,000	7,000	7,760	147,760	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

(000000							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
128-04-1	*	Sodium dimethyl- dithiocarbamate	88 95 980 98n 990 99n 000 00n	NR 63 84 9 75 7 64 10	NR 2,746 12,254 7 5,651 487 7,113	NR 10 4,868 0 4 0 4	NR 0 0 0 0 0 0	NR 0 13,367 324,284 0 420,623 0 171,133	NR 2,756 30,489 324,291 5,655 421,110 7,117 171,134	NR 125,357 295,696 12,564 276,157 33,498 583,700 135,345	NR 128,113 326,185 336,855 281,812 454,608 590,817 306,479
62-74-8	*	Sodium fluoro- acetate	88 95 980 98n 990 99n 000 00n	NR No reports No reports No reports No reports No reports 2 No reports	NR 4	NR 0	NR 0	NR 0	NR 4	NR 153	NR 157
7632-00-0	*	Sodium nitrite	88 95 980 98n 990 99n 000 00n	NR 357 415 25 420 18 412 21	NR 291,961 173,094 771 155,114 811 129,587 717	NR 1,440,082 1,030,634 500 1,556,633 36,579 1,156,939 1,986	NR 1,004,363 1,941,400 27,801 2,007,410 0 2,276,276	NR 81,948 530,536 14,910 260,920 12,010 360,415 4,060	NR 2,818,354 3,675,664 43,982 3,980,077 49,400 3,923,217 6,763	NR 291,448 474,340 78 404,431 0 352,767 21,626	NR 3,109,802 4,150,004 44,060 4,384,508 49,400 4,275,984 28,389
131-52-2	*	Sodium penta- chlorophenate	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
132-27-4	*,**	Sodium o-phenyl- phenoxide	88 95 980 98n 990 99n 000 00n	NR 3 4 No reports 6 No reports 9 No reports	NR 0 0 10	NR 0 0 0 750	NR 0 0 11,000 13,000	NR 0 0 250	NR 0 0 11,260 14,010	NR 0 0 250 1,750	NR 0 0 11,510 15,760
		Strychnine and salts	88 95 980	NR No reports No reports	NR	NR	NR	NR	NR	NR	NR
			98n 99o 99n	No reports 3	5	0	0	0	5	0 171	0 176
			00o 00n	No reports 2	0	0	0	0	0	0	0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(сониниеи)		Recy	cled	Energy R	Recovery	Т	reated	0	T-4-1	Nam Buadaa
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
* Sodium dimeth		NA	NA	NA	NA	NA	NA	NA	NA	NA
dithiocarbamat		250	199,200	0	0	462,188	484,448	28,159	1,174,245	5,000
	980	250	183,221	192	0	751,668	663,564	270,556	1,869,451	0
	98n 99o	0 250	196,401	0	3 0	0 787,982	430 576,882	339,284 145,520	339,718 1,707,035	0
	99n	0	0	0	0	42,326	0	454,458	496,784	0
	00o	250	158,844	0	0	532,266	583,858	388,950	1,664,168	0
	00n	0	0	0	0	45,654	0	306,479	352,133	0
* Sodium fluoro- acetate	- 88 95 980 98n 990	NA No reports No reports No reports No reports	NA	NA	NA	NA	NA	NA	NA	NA
	99n 00o	0 No reports	0	0	0	124,717	0	157	124,874	0
	00n	0	0	0	0	89,038	0	0	89,038	0
* Sodium nitrite	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	374,426	4,657	0	0	17,461,874	3,003,853	4,002,119	24,846,929	270
	980	391,745	17,741	0	17	38,822,470	3,310,175	5,612,675	48,154,823	9,037
	98n 99o	42,644 511,277	0 45 408	0	0 20	779,173 47,177,908	176,989	44,292	1,043,098	89,000
	990 99n	0	45,498 0	0	0	1,169,880	2,678,112 200,126	6,157,468 49,634	56,570,283 1,419,640	89,000
	00o	631,650	205,247	211	3,832	45,135,898	2,485,398	4,375,358	52,837,594	140,087
	00n	031,030	0	0	0	1,467,242	242,426	30,034	1,739,702	0
* Sodium penta- chlorophenate	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
*,**Sodium o-pher		NA	NA	NA	NA	NA	NA	NA	NA	NA
phenoxide	95	0	0	0	0	0	0	0	0	0
	98o 98n	0 No reports	0	0	0	0	0	0	0	0
	98n 99o	No reports 0	0	0	0	0	0	11,000	11,000	0
	99n	No reports	U	U	U	· ·	U	11,000	11,000	
	00o	0	0	0	0	8,800	8,800	25,600	43,200	0
	00n	No reports	Ü	Ĭ	Ü	0,000	0,000	20,000	.5,200	
Strychnine and		NA	NA	NA	NA	NA	NA	NA	NA	NA
salts	95	No reports								
	98o	No reports								
	98n	0	0	0	0	31,974	0	0	31,974	0
	99o	No reports								
	99n	0	0	0	0	161,966	0	177	162,143	0
	00o	No reports		_					,	
	00n	0	0	0	0	120,960	20	0	120,980	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	-						On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
100-42-5	**	Styrene	88 95 980 98n 990 99n 000 00n	1,260 1,577 1,575 106 1,590 91 1,607	34,316,211 42,143,073 54,557,250 22,243 58,452,755 31,060 57,153,754 9,112	59,069 4,570 243,133 15 3,414 271 3,351	165 209,945 345,945 161,738 191,124 0 260,005	242,941 96,078 322,816 14,398 376,072 94,307 184,189 85,000	34,618,386 42,453,666 55,469,144 198,394 59,023,365 125,638 57,601,299 94,127	2,013,696 2,741,708 2,081,093 10,577 2,143,216 86,622 2,186,574 4,602	36,632,082 45,195,374 57,550,237 208,971 61,166,581 212,260 59,787,873 98,729
96-09-3	**	Styrene oxide	88 95 980 98n 990 99n 000	6 5 2 No reports 1 No reports 4	2,314 13 9 7 48	0 0 0 0	0 0 0 0	0 0 0	2,314 13 9 7 48	750 0 0 0	3,064 13 9 7 48
7664-93-9	*	Sulfuric acid	00n 88 95 980 98n 990 99n 000 00n	1 DC 1,598 838 485 790 486 738 470	0 DC 22,900,996 27,897,155 167,296,008 26,382,695 154,460,473 28,578,774 120,217,202	0 DC 5,363 22,608 1 13,426 6 18,305	0 DC 30,035 690,900 0 1,075,050 0 807,650	33,987 DC 134,812 55,837 85,501 166,992 53,789 13,211 95,650	33,987 DC 23,071,206 28,666,500 167,381,510 27,638,163 154,514,268 29,417,940 120,312,858	0 DC 4,733,342 347,593 20,000 99,389 20,200 222,032 64,003	33,987 DC 27,804,548 29,014,093 167,401,510 27,737,552 154,534,468 29,639,972 120,376,861
2699-79-8	*	Sulfuryl fluoride	88 95 980 98n 990 99n 000 00n	NR 2 3 No reports 3 No reports 3 No reports	NR 355,007 466,000 505,600 610,130	NR 0 0 0	NR 0 0 0	NR 0 0 0 0 0	NR 355,007 466,000 505,600 610,130	NR 0 0 0	NR 355,007 466,000 505,600 610,130
35400-43-2	*	Sulprofos	88 95 980 98n 990 99n 000 00n	NR 1 No reports	NR 247	NR 0	NR 0	NR 0	NR 247	NR 0	NR 247
34014-18-1	*	Tebuthiuron	88 95 980 98n 990 99n	NR 1 1 No reports 1 No reports	NR 5 10 755	NR 0 0	NR 0 0	NR 0 0	NR 5 10 755	NR 0 750 750	NR 5 760 1,505
			00o 00n	No reports	1,010	0	0	0	1,010	1,500	2,510

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recy	cled	Energy	Recovery	Т	reated	Oventity	Total	Non Duoduo
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
** Styrene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	9,297,615	915,377	20,677,749	9,261,727	14,069,737	4,271,662	44,380,272	102,874,139	170,874
	98o	15,425,655	1,512,181	29,679,770	8,559,222	9,924,466	4,959,623	56,690,030	126,750,947	181,734
	98n	163,600	482,410	0	2,877,212	1,307,660	163,076	676,686	5,670,644	962
	990	14,016,160	895,390	43,228,207	11,341,001	12,378,926	3,573,555	64,772,991	150,206,230	161,168
	99n	341,558	37,258	0	698,514	2,203,112	508,367	108,641	3,897,450	559
	000	6,747,147	2,564,485	33,084,060	9,382,213	20,233,070	3,262,963	56,775,180	132,049,118	17,658
** Styrene oxide	00n	63,200	27,473	10,778	2,987,614	3,620,790	251,962	93,340	7,055,157	17,550
** Styrene oxide	88 95	NA 0	NA 0	NA 35,337	NA 0	NA 0	NA 0	NA 13	NA 35,350	NA 0
	93 980	0	0	30,000	0	0	0	9	30,009	0
	980 98n	No reports	U	30,000	U	0	U	9	30,009	
	990	0	0	70,000	0	0	0	7	70,007	0
	99n	No reports	Ü	70,000	· ·	Ů	V	,	70,007	ľ
	00o	0	0	77,439	12,000	0	0	48	89,487	9
	00n	0	0	0	0	0	0	33,987	33,987	0
Sulfuric acid	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	686,624,536	5,892,020	66,777	24,524	653,436,965	11,621,900	24,354,034	1,382,020,756	75,635
	98o	242,489,671	1,193,466	43,000	41	164,753,055	4,589,826	28,762,904	441,831,963	42,042
	98n	0	15	0	17,184	380,219,525	327	166,400,281	546,637,332	1,823
	99o	252,121,629	1,012,934	28,000	1,680	150,693,343	2,110,776	28,179,169	434,147,531	40,974
	99n	0	1,595	0	0	411,660,798	85,332	154,441,975	566,189,700	264
	00o	58,843,766	2,541,697	4,725	3,469	147,875,275	2,576,414	30,441,144	242,286,490	11,313
	00n	0	0	0	0	458,366,697	743	120,156,161	578,523,601	52,962
Sulfuryl fluoride	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	0	371,500	371,500	0
	98o	0	0	0	0	0	0	461,000	461,000	5,700
	98n	No reports	0	0	0		0	505 (00	505 (00	
	990 99n	O No somesta	0	0	0	0	0	505,600	505,600	0
	9911 00o	No reports 0	0	0	0	0	0	610,130	610,130	0
	000 00n	No reports	U	U	U	0	U	010,130	010,130	"
Sulprofos	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
Surproros	95	0	0	0	0	1,137	0	249	1,386	0
	98o	No reports	Ŭ	V	· ·	1,137	Ů	247	1,500	ľ
	98n	No reports								
	990	No reports								
	99n	No reports								
	00o	No reports								
	00n	No reports								
* Tebuthiuron	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	1	0	0	0	1,000	1,100	1	2,102	0
	98o	4	0	0	0	860	870	1	1,735	0
	98n	No reports								
	99o	3	0	0	0	680	700	1	1,384	0
	99n	No reports								
	00o	4	0	0	0	920	1,430	501	2,855	0
	00n	No reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

						On-site Releases			Off-site Releases	
CAS Number	Chem	nical Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
3383-96-8	* Temep	95 980 980 981 990 991 000 000	NR 1 2 1 1 1	NR 0 0 7 0 0 0	NR 0 0 0 0 0 0	NR 0 0 0 0 0 0	NR 0 0 0 0 0 0	NR 0 0 7 0 0 0	NR 0 0 0 0 0 0	NR 0 0 7 0 0 0
5902-51-2	* Terbac		NR 2 No reports No reports No reports No reports No reports No reports	NR 0	NR 4,608	NR 0	NR 0	NR 4,608	NR 0	NR 4,608
79-94-7	*** Tetrab	oromo- 88 enol A 95 980 980 980 990 990 000 000	NR NR NR NR NR NR 1	NR NR NR NR NR NR 62,387.41	NR NR NR NR NR NR 0.00	NR NR NR NR NR NR 0.00	NR NR NR NR NR NR 197,529.00	NR NR NR NR NR NR 259,926.41	NR NR NR NR NR NR 537,549.30	NR NR NR NR NR NR 797,475.71
630-20-6		2-Tetra- 88 95 980 980 990 990 000 000	NR 8 7 5 11 3 12 5	NR 7,011 8,612 952 5,246 141 4,840 20	NR 0 5 0 0 1 0	NR 0 0 0 0 0 0 0	NR 0 0 0 0 0 0 0	NR 7,011 8,617 952 5,246 142 4,840 20	NR 2 2 67 1 734 0	NR 7,013 8,619 1,019 5,247 876 4,840 20
79-34-5		2-Tetra- 88 95 980 98n 990 99n 000 00n	13 16 15 6 13 5 15	43,865 8,275 7,247 52 5,170 32 4,442	1,903 2,222 19 250 0 1 8	0 0 0 5 5 0 0	29 0 0 0 15 0 0	45,797 10,497 7,266 307 5,185 33 4,450 24	128,750 7 6,458 45 10 20 621	174,547 10,504 13,724 352 5,195 53 5,071 24
127-18-4	*,** Tetrac ethyle	hloro- 88	749 443 367 162 320 147 291 150	36,146,115 9,748,018 5,506,017 202,717 3,820,214 204,903 3,188,523 265,409	33,314 2,407 1,490 250 1,793 1 1,151	72,250 20,481 5,916 644 8,897 288 6,490 53,901	82,144 6 2,992 18,986 19,885 85,000 66 14,293	36,333,823 9,770,912 5,516,415 222,597 3,850,789 290,192 3,196,230 333,611	1,385,378 78,953 126,443 30,635 27,966 176,545 25,483 19,110	37,719,201 9,849,865 5,642,858 253,232 3,878,755 466,737 3,221,713 352,721

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} PBT chemical added to list for 2000 reporting year. See Chapter 3 for more information.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

Chemical Vear	<u>(continueu)</u>		Recy	vcled	Energy l	Recovery	Т	reated	Quantity	Total	Non Bradus
95 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Chemical	Year							On-and Off-site	related Waste Managed	Non-Produc- tion-related Waste Managed Pounds
986	* Temephos										NA
986 0 0 0 0 0 31,269 0 0 0 0 0 0 0 0 0											0
990											
##* Tetrabromo- 88 NA											0
*** Terbacil											
*** Terbacil											0
95 No reports 980 No reports 990 NR		00n	0	0	0	0	51,378	0	0	51,378	0
980 No reports 990 NR	* Terbacil										NA
981 No reports 990 No reports 990 No reports 990 No reports 991 No reports 991 No reports 991 No reports 991 No reports 992 No reports 993 No reports 994 No reports 994 No reports 995 No reports 996 NR				0	0	0	5,070	7,558	4,608	17,236	0
990 No reports No R NR N											
Post			*								
No reports No											
*** Tetrabromo											
bisphenol A 95		00n									
NR	icu abioino-										NA
NR	bisphenol A										
Post											
99n											
000											
1,1,2,2-Tetra-											0.00
chloroethane 95 2,600,000 0 0 4,234,676 379,203 8,341 7,222,220 40 980 6,600,180 0 0 120,700 2,930,017 43,074 8,535 9,702,506 18 980 0 0 0 0 158,326 2,580,168 1,015 2,739,509 0 990 6,500,000 0 0 147,754 4,022,583 50,056 4,617 10,725,010 385 99n 0 0 0 0 0 700,000 0 721,885 0 000 6,000,000 6,880 0 10,727 2,245,600 60,921 5,658 8,329,786 1 *1,1,2,2-Tetra- 88 NA chloroethane 95 6,200,000 2,233,342 846,600 880 13,754,898 150,324 10,503 23,196,547 40 <											0.00
980 6,600,180 0 0 120,700 2,930,017 43,074 8,535 9,702,506 18 98n 0 0 0 0 0 158,326 2,580,168 1,015 2,739,509 0 0 990 6,500,000 0 0 147,754 4,022,583 50,056 4,617 10,725,010 385 99n 0 0 0 0 0 708,087 12,991 807 721,885 05 000 6,000,000 6,880 0 10,727 2,245,600 60,921 5,658 8,329,786 1 000 0 0 0 0 0 0 196,146 781 20 196,947 0 * 1,1,2,2-Tetra- 88 NA	1,1,1,2-Tetra-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
98n	chloroethane										40
990 6,500,000 0 0 0 147,754 4,022,583 50,056 4,617 10,725,010 385 000 6,000,000 6,880 0 10,727 2,245,600 60,921 5,658 8,329,786 1 000 0 0 0 0 196,146 781 20 196,947 0 0 196,146 781 20 196,146 781				-			1 1				
99n 0 0 0 0 10,727 2,245,600 60,921 5,658 8,329,786 1 * 1,1,2,2-Tetra-chloro-ethane 95 46,318,487 6,835,120 8,865,647 781,602 10,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									· · · · · · · · · · · · · · · · · · ·		
000											
****Tetrachloro-ethylene** 00n				-		-					1
chloroethane 95 6,200,000 2,233,342 846,600 880 13,754,898 150,324 10,503 23,196,547 40 980 6,692,000 2,339,618 597,000 0 10,254,173 119,300 8,847 20,010,938 803 98n 0 0 0 2,214 479,168 2,560,430 125 3,041,937 0 99n 0 6,492,000 3,095,391 0 0 11,976,729 53,056 4,760 21,621,936 294 99n 0 0 0 0 386,882 0 39 386,921 0 000 5,202,000 337,790 1,079,075 171 17,200,229 86,138 5,113 23,910,516 13 00n 0 0 0 0 315,917 804 18 316,739 0 *,**Tetrachloro- 88 NA NA NA NA NA NA NA NA NA NA <td></td> <td>0</td>											0
980 6,692,000 2,339,618 597,000 0 10,255,173 119,300 8,847 20,010,938 803 98n 0 0 0 0 2,214 479,168 2,560,430 125 3,041,937 0 0 990 6,492,000 3,095,391 0 0 0 11,976,729 53,056 4,760 21,621,936 294 99n 0 0 0 0 0 386,882 0 39 386,921 0 0 0 0 5,202,000 337,790 1,079,075 171 17,200,229 86,138 5,113 23,910,516 13 00n 0 0 0 0 315,917 804 18 316,739 0 0 0 0 315,917 804 18 316,739 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	* 1,1,2,2-Tetra-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
98n	chloroethane				· · · · · · · · · · · · · · · · · · ·						40
990 6,492,000 3,095,391 0 0 0 11,970,729 53,056 4,760 21,621,936 294 99n 0 0 0 0 386,882 0 39 386,921 0 0 0 0 5,202,000 337,790 1,079,075 171 17,200,229 86,138 5,113 23,910,516 13 00n 0 0 0 0 315,917 804 18 316,739 0 0 0 0 0 315,917 804 18 316,739 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											
99n 0 0 0 0 386,882 0 39 386,921 0 0 0 5,202,000 337,790 1,079,075 171 17,200,229 86,138 5,113 23,910,516 13 316,739 0 0 0 0 0 315,917 804 18 316,739 0 0 1,**Tetrachloro- 88 NA											
000 000 000 000 000 000 000 000 000 00											
****Tetrachloro- ***ethylene** ***Tetrachloro- ***ethylene** ****Tetrachloro- ****ethylene** ****Tetrachloro- *****ethylene** ******* ******** ******* ****** ****											13
*,***Tetrachloro- ethylene 95 46,318,487 6,835,120 8,865,647 781,602 26,279,022 2,315,885 9,741,310 101,137,073 14,443 980 127,767,543 15,606,301 3,641,487 603,157 25,248,412 1,088,051 5,506,801 179,461,752 36,257 98n 5,858,398 975,944 434 2,887,011 1,516,150 4,620,532 248,694 16,107,163 120 990 109,300,419 9,674,634 3,140,705 306,463 10,455,129 912,107 3,856,914 137,646,371 30,526 99n 12,200,495 442,632 887 4,858,731 4,167,153 6,145,730 323,891 28,139,519 79 000 101,132,754 8,462,390 3,062,605 429,283 213,209,500 661,338 3,369,466 330,327,336 14,655			1 1		f ()						0
ethylene 95 46,318,487 6,835,120 8,865,647 781,602 26,279,022 2,315,885 9,741,310 101,137,073 14,443 980 127,767,543 15,606,301 3,641,487 603,157 25,248,412 1,088,051 5,506,801 179,461,752 36,257 98n 5,858,398 975,944 434 2,887,011 1,516,150 4,620,532 248,694 16,107,163 120 990 109,300,419 9,674,634 3,140,705 306,463 10,455,129 912,107 3,856,914 137,646,371 30,526 99n 12,200,495 442,632 887 4,858,731 4,167,153 6,145,730 323,891 28,139,519 79 000 101,132,754 8,462,390 3,062,605 429,283 213,209,500 661,338 3,369,466 330,327,336 14,655	*,**Tetrachloro-	88									NA
98n 5,858,398 975,944 434 2,887,011 1,516,150 4,620,532 248,694 16,107,163 120 99o 109,300,419 9,674,634 3,140,705 306,463 10,455,129 912,107 3,856,914 137,646,371 30,526 99n 12,200,495 442,632 887 4,858,731 4,167,153 6,145,730 323,891 28,139,519 79 000 101,132,754 8,462,390 3,062,605 429,283 213,209,500 661,338 3,369,466 330,327,336 14,655	ethylene	95									14,443
990 109,300,419 9,674,634 3,140,705 306,463 10,455,129 912,107 3,856,914 137,646,371 30,526 99n 12,200,495 442,632 887 4,858,731 4,167,153 6,145,730 323,891 28,139,519 79 000 101,132,754 8,462,390 3,062,605 429,283 213,209,500 661,338 3,369,466 330,327,336 14,655											
99n 12,200,495 442,632 887 4,858,731 4,167,153 6,145,730 323,891 28,139,519 79 000 101,132,754 8,462,390 3,062,605 429,283 213,209,500 661,338 3,369,466 330,327,336 14,655										/ /	
000 101,132,754 8,462,390 3,062,605 429,283 213,209,500 661,338 3,369,466 330,327,336 14,655			1 1			/					
00n 9,939,721 172,693 20,858 3,042,652 3,066,773 2,129,427 510,873 18,882,997 4,731											4,731

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} PBT chemical added to list for 2000 reporting year. See Chapter 3 for more information.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(communication)							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
354-11-0		1,1,1,2-Tetra-	88	NR	NR	NR	NR	NR	NR	NR	NR
		chloro-2-fluoro- ethane	95 980 98n 990 99n	No reports No reports No reports No reports	23,275	1	0	0	23,276	0	23,276
			00o	1	27,200	0	0	0	27,200	0	27,200
			00n	1	0	0	0	0	0	0	0
354-14-3		1,1,2,2-Tetra- chloro-1-fluoro-	88 95	NR 1	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0
		ethane	93 980	1	10	0	0	0	10	0	10
			98n 99o	No reports	10	0	0	0	10	0	10
			99n 00o 00n	No reports 1 No reports	25	0	0	0	25	0	25
961-11-5	*	Tetrachlorvinphos	88	6	251	0	0	0	251	9,270	9,521
			95	5	626	5	0	0	631	4,200	4,831
			980 98n	4 No reports	360	5	0	0	365	0	365
			99o 99n	4 2	196 5	5	0	0	201 5	1,037 809	1,238 814
			99II 00o	5	444	5	0	0	449	37	486
			00n	1	0	0	0	0	0	0	0
64-75-5	*	Tetracycline	88	NR	NR	NR	NR	NR	NR	NR	NR
		hydrochloride	95 980 98n	2 2 No reports	754 525	0	0	0	754 525	112 1,800	866 2,325
			990	3	0	0	0	0	0	4,300	4,300
			99n	1	0	0	0	0	0	0	0
			00o 00n	4	10 0	0	0	0	10 0	11,550 0	11,560 0
7696-12-0	*	Tetramethrin	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	2	0	0	0	0	0	0	0
			980	2	0	0	0	0	0	0	0
			98n 99o	No reports 4	10,080	0	0	0	10,080	0	10,080
			990 99n	No reports	10,000	U	U	U	10,080	U	10,080
			00o 00n	3 No reports	11,088	0	0	0	11,088	0	11,088
7440-28-0		Thallium	88	No reports							
			95	1	255	0	0	755	1,010	195	1,205
			980	5	15	0	0	3,400	3,415	3,665	7,080 96,942
			98n 99o	5 4	533 2,137	65 0	0	96,339 4,355	96,937 6,492	5 4,578	96,942 11,070
			99n	3	1,020	600	0	72,700	74,320	99,000	173,320
			00o	5	8	0	0	3,656	3,664	3,714	7,378
			00n	2	1,100	540	0	0	1,640	99,000	100,640

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	опиниеи)		Recyc	eled	Energy R	ecovery	Tr	reated	0 414	T. 4.1	N. D. I
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
	1,1,1,2-Tetra-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	chloro-2-fluoro- ethane	95 980 98n 990 99n	No reports 6,600 No reports No reports No reports	270	0	0	0	0	21,000	27,870	0
		00o	7,800	0	0	0	0	550	27,200	35,550	0
		00n	0	0	0	0	0	0	0	0	0
	1,1,2,2-Tetra-	88 95	NA 0	NA	NA	NA 0	NA	NA	NA	NA 0	NA 0
	chloro-1-fluoro- ethane	93 980	0	0	0	0	0	0 26,387	0 15	0 26,402	0 0
	Ctriane	98n 99o	No reports	0	0	0	0	67,130	15	67,145	0
		99n 00o	No reports	0	0	30,589	0	7,306	25	37,920	0
		00n	No reports			,		.,			
*	Tetrachlorvinphos	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	330	0	17,000	47,000	1,020	4,244	4,395	73,989	0
		98o	350	0	44,000	26,700	870	11,640	211	83,771	0
		98n 99o	No reports 375	0	14,000	98,900	1,131	13,640	435	128,481	0
		990 99n	0	0	14,000	98,900	36,510	13,040	61	36,571	0
		00o	370	0	21,000	34,600	1,013	23,715	330	81,028	0
		00n	0	0	0	0	62,900	275	0	63,175	0
*	Tetracycline	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	hydrochloride	95	0	0	0	0	0	1,736	677	2,413	0
		980 98n	0 No reports	0	0	0	0	700	2,160	2,860	0
		99o	0	0	0	0	0	2,001	4,501	6,502	0
		99n	0	0	0	0	0	0	0	0	0
		00o 00n	0	0	0	0	0	4,888 0	11,588 0	16,476 0	1 0
*	Tetramethrin	88	NA NA	NA	NA NA	NA	NA	NA	NA	NA NA	NA NA
		95	0	0	0	0	0	437	0	437	0
		98o	0	0	0	0	0	0	0	0	0
		98n	No reports								
		990	0	0	0	0	0	260	10,080	10,340	0
		99n	No reports	0	0	0	0	0	11.000	11.000	
		00o	0 No reports	0	0	0	0	0	11,088	11,088	0
	Thallium	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	688,093	3,852	0	0	0	190	31	692,166	0
		98o	0	0	52,353	1	0	9	3,406	55,769	0
		98n	0	0	0	0	21,600	1	96,826	118,427	0
		99o	9	0	0	0	0	51	6,437	6,497	0
		99n	0	0	0	0	0	0	173,000	173,000	0
		000	1,400	0	0	0	0	29	3,732	5,161	0
		00n	0	0	0	0	0	0	100,000	100,000	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
		Thallium	88	4	253	0	0	250	503	1,256	1,759
		compounds	95	No reports						Í	
			980	4	1,060	250	0	409,000	410,310	259	410,569
			98n 99o	28	34,505 654	749 750	0	10,756,608 252,800	10,791,862	2,302	10,794,164
			990 99n	4 31	4,802	2,129	0	3,109,257	254,204 3,116,188	1,583 60,062	255,787 3,176,250
			00o	7	1,942	342	0	174,855	177,139	277,627	454,766
			00n	32	9,858	1,753	0	3,664,394	3,676,005	793,071	4,469,076
148-79-8	*	Thiabendazole	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	3	3,929	0	0	0	3,929	0	3,929
			98o	3	0	0	0	0	0	0	0
			98n	No reports							
			990	3	255	0	0	0	255	0	255
			99n	No reports	7 00					4.500	• • • • •
			00o	3	500	0	0	0	500	1,500	2,000
62-55-5	**	Thioacetamide	00n 88	No reports	500	0	0	0	500	0	500
02-33-3		Timoacetamide	95	No reports	300	U	U	U	300	U	300
			98o	No reports							
			98n	1	0	0	0	0	0	0	0
			990	No reports							_
			99n	3	7	1	0	0	8	164	172
			00o	No reports							
			00n	3	5	0	0	0	5	0	5
28249-77-6	*	Thiobencarb	88	NR	NR	NR	NR	NR	NR	NR	NR
			95	2	510	0	0	0	510	3,032	3,542
			980	2	286	0	0	0	286	760	1,046
			98n 99o	No reports 2	343	0	0	0	343	832	1,175
			99n	No reports	543	U	U	U	343	632	1,173
			00o	2	34	0	0	0	34	11	45
			00n	No reports		· ·					
139-65-1	**	4,4'-Thiodianiline		No reports							
		·	95	No reports							
			98o	No reports							
			98n	No reports							
			990	No reports							
			99n	No reports							
			000	No reports							
59669-26-0	*	Thiodicarb	00n 88	No reports NR	NR	NR	NR	NR	NR	NR	NR
J7007-20-U		111100110110	95	2	376	0	0	0	376	500	876
			98o	3	359	0	0	0	359	5,966	6,325
			98n	No reports		Ü	· ·	· ·		,,,,,,	0,525
			99o	3	438	0	0	6,843	7,281	239	7,520
			99n	No reports				ŕ			
			00o	3	355	0	0	0	355	0	355
			00n	1	0	0	0	0	0	0	0

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commueu)		Recyc	eled	Energy R	ecovery	Tr	eated	0	T-4-1	N D
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
Thallium	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
compounds	95	No reports								
	98o	0	0	0	0	0	250	310,000	310,250	100,000
	98n 99o	2,133 0	0	0 0	0	0	1 315	10,794,136 194,746	10,796,270 195,061	650 60,000
	990 99n	1,884	0	0	0	0	0	3,009,808	3,011,692	120,000
	00o	220,000	8,700	0	0	0	29	449,214	677,943	4,300
	00n	1,810	5	0	0	0	0	4,044,573	4,046,388	54,000
* Thiabendazole	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	1	0	0	2,160	1,200	1,931	3,740	9,032	0
	98o	0	0	0	0	0	747	0	747	0
	98n	No reports			0	1.500	5.004	7.5		
	99o	0	0	0	0	1,500	5,094	75	6,669	0
	99n 00o	No reports 0	0	0	0	1,600	5,045	240	6,885	0
	000 00n	No reports	U	V	Ü	1,000	3,043	240	0,003	· ·
** Thioacetamide	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	No reports								
	98o	No reports								
	98n	0	0	0	0	0	0	0	0	0
	99o	No reports	0	0	0	101 220	0	167	101 206	
	99n 00o	0 No reports	0	0	0	181,229	0	167	181,396	0
	000 00n	No reports	0	0	0	105,451	780	5	106,236	0
* Thiobencarb	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	620	3,162	3,782	0
	98o	747	0	0	0	0	198	1,772	2,717	0
	98n	No reports								
	99o	0	0	0	0	0	105	120	225	0
	99n	No reports	0		0	0	1.1	2.4	51	0
	00o 00n	6 No reports	0	0	0	0	11	34	51	0
** 4,4'-Thiodianiline	88	NA NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1 111100101111110	95	No reports	- 1	1,12	1,11	1,12	- 1.1.2	1,12	1,11	1,12
	98o	No reports								
	98n	No reports								
	99o	No reports								
	99n	No reports								
	00o	No reports								
* Thiodicarb	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
Tinourcato	95	1,500	0	0	0	41,139	160	180	42,979	0
	98o	108,880	0	0	0	34,243	19,476	362	162,961	0
	98n	No reports					*		<u> </u>	
	99o	84,500	0	0	0	35,246	11,073	1,200	132,019	0
	99n	No reports		_			4.4.4.4.			
	00o	156,750	0	0	0	34,073	12,681	1,653	205,157	0
	00n	0	0	0	0	15,456	25	0	15,481	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

(603333						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
23564-06-9	* Thiophanate ethyl	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
23564-05-8	* Thiophanate-	88	NR	NR	NR	NR	NR	NR	NR	NR
	methyl	95	3	502	0	0	0	502	0	502
		98o	7	431	0	0	0	431	442	873
		98n 99o 99n	No reports 10 No reports	493	0	0	0	493	7,165	7,658
		000	9	740	0	0	0	740	3,709	4,449
		00n	No reports	,	· ·	Ů		,	2,,,0,	.,,
79-19-6	Thiosemi-	88	NR	NR	NR	NR	NR	NR	NR	NR
	carbazide	95 980 98n 990	No reports No reports No reports	0	0	0	0	0	0	0
		99n	2	3	0	0	0	3	98	101
		00o 00n	No reports	0	0	0	0	0	0	0
62-56-6	*,** Thiourea	88	26	2,004	16,951	5,940	750	25,645	2,303	27,948
02 30 0	, imourea	95	26	1,630	1,487	5,000	250	8,367	4,269	12,636
		980	27	1,422	358	1,250	250	3,280	5,895	9,175
		98n	4	0	0	0	0	0	0	0
		99o	23	789	257	0	250	1,296	1,108	2,404
		99n	6	213	1	0	0	214	189	403
		00o 00n	22 8	1,283 0	266 0	0	250	1,799	946 0	2,745 28,553
137-26-8	* Thiram	88	NR	NR	NR	NR	28,553 NR	28,553 NR	NR	28,333 NR
157 20 0	1 IIII dili	95	61	2,856	50	0	0	2,906	98,617	101,523
		98o	65	3,428	22	0	1,751	5,201	87,165	92,366
		98n	3	15	0	0	0	15	25	40
		99o	59	3,374	30	0	589	3,993	71,214	75,207
		99n	5	42	1	0	0	43	222	265
		000	65	3,913	40	0	9,873	13,826	740,399 0	754,225
1314-20-1	Thorium dioxide	00n 88	3	1,580	0	0	0	25 1,580	677,549	25 679,129
1011201	morium dioxide	95	1	1,500	0	0	0	1,560	077,349	1
		98o	2	0	0	0	0	0	0	0
		98n	No reports							
		990	1	0	0	0	0	0	0	0
		99n	No reports	_	^		^	_	_	^
		00o 00n	No reports	0	0	0	0	0	0	0
		UUII	ino reports					l	l	

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commueu)		Recyc	eled	Energy R	ecovery	T	reated	Oventity	Total	Non Bradua
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
* Thiophanate ethyl	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
* Thiophanate-meth	95 98o	NA 320 10,000	NA 0 0	NA 0 0	NA 0 0	NA 0 0	NA 2,677 3,431	NA 507 436	NA 3,504 13,867	NA 0 0
	98n 99o 99n	No reports 11,800 No reports	0	0	0	0	13,725	2,810	28,335	0
	00o 00n	470 No reports	0	0	0	0	5,781	5,126	11,377	0
Thiosemicarbazido		NA 0 No reports No reports No reports	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0	NA 0
	99n 00o	No reports No reports	0	0	0	67,904	0	101	68,005	0
*,**Thiourea	00n 88 95 980 98n 990 99n 000 00n	0 NA 7,082 0 0 0 0 0	0 NA 0 245 0 0 0 55,452	0 NA 0 0 0 0 0 0	0 NA 0 0 0 0 0 0	49,589 NA 18,535 54,525 0 98,133 284,371 14,161 93,651	0 NA 11,867 16,111 0 6,349 0 20,785	0 NA 10,652 8,822 0 2,191 400 2,495 28,553	49,589 NA 48,136 79,703 0 106,673 284,771 92,893 122,204	0 NA 0 0 0 0 0 0 0
* Thiram	88 95 980 98n 990 99n 000 00n	NA 18,712 25,341 0 34,797 0 33,951	NA 31,501 31,339 0 32,328 0 21,459	NA 0 0 0 0 0 0 0	NA 5 870 0 925 0 1,022	NA 407 0 42,192 0 261,724 0 138,262	NA 10,622 19,988 0 25,452 0 22,883 795	NA 101,354 90,444 40 74,774 260 82,833 25	NA 162,601 167,982 42,232 168,276 261,984 162,148 139,082	NA 0 0 0 0 0 0 0
Thorium dioxide	88 95 980 98n	NA 26,000 3,100 No reports	NA 0 0	NA 0 0	NA 0 0	NA 0 0	NA 2,600 0	NA 1 330	NA 28,601 3,430	NA 0 0
	990 99n 000 00n	0 No reports 0 No reports	0	0	0	0 27,000	0	0	0 27,000	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

										Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
7550-45-0		Titanium tetrachloride	88 95 980 98n 990 99n	41 33 34 3 33 1	78,668 20,299 31,991 0 27,302	0 0 0 0 0	0 0 0 0 0	1,400 0 0 0 0	80,068 20,299 31,991 0 27,302	0 32,282 380 0 260,390	80,068 52,581 32,371 0 287,692
			00o 00n	37	31,060 0	0	0	41 0	31,101 0	239,857 0	270,958 0
108-88-3	*	Toluene	88 95 980 98n 990 99n 000 00n	4,012 3,496 3,045 828 2,847 790 2,735 784	300,062,684 148,209,769 98,127,877 938,011 90,136,176 815,074 79,920,420 1,337,161	196,957 53,493 38,184 5,589 32,124 14,264 37,928 2,569	1,473,666 310,643 590,241 133,774 612,896 125,489 316,830 196,980	644,168 177,353 71,215 30,106 109,234 209,517 51,944 96,952	302,377,475 148,751,258 98,827,517 1,107,480 90,890,430 1,164,344 80,327,122 1,633,662	9,620,391 894,959 1,326,121 366,200 1,299,182 777,100 1,162,400 334,938	311,997,866 149,646,217 100,153,638 1,473,680 92,189,612 1,941,444 81,489,521 1,968,600
584-84-9	**	Toluene-2,4- diisocyanate	88 95 980 98n 990 99n 000 00n	258 64 54 6 51 11 51	165,062 7,802 6,849 2 4,386 456 3,282 70	0 0 5 0 5 1 5	0 0 0 0 0 0 0	1,040 0 0 0 0 0 14,201 0 12,160	166,102 7,802 6,854 2 4,391 14,658 3,287 12,230	36,178 611 4,402 0 14,442 531 14,780	202,280 8,413 11,256 2 18,833 15,189 18,067 12,230
91-08-7	**	Toluene-2,6- diisocyanate	88 95 980 98n 990 99n 000 00n	189 40 24 1 25 3 24 2	492,192 3,043 1,560 0 2,395 5 447	0 0 0 0 0 0	0 0 0 0 0 0	510 0 0 0 0 0 0 0	492,702 3,043 1,560 0 2,395 5 447	9,444 153 1,079 0 1,258 160 3,670	502,146 3,196 2,639 0 3,653 165 4,117
26471-62-5	**	Toluene diisocyanate (mixed isomers)	88 95 980 98n 990 99n 000 00n	NR 196 176 4 176 7 170 8	NR 48,856 55,406 0 34,794 38 34,631 24	NR 105 0 0 2,500 1 2,500 0	NR 0 0 0 0 0 0	NR 275 534 0 256 0 2,729 27,010	NR 49,236 55,940 0 37,550 39 39,860 27,034	NR 26,263 32,450 0 29,085 6,985 18,395	NR 75,499 88,390 0 66,635 7,024 58,255 27,034
95-53-4	**	o-Toluidine	88 95 980 98n 990 99n 000 00n	18 23 19 No reports 20 5 20 5	46,922 13,499 7,750 7,714 22 11,061 3	1,902 256 5 1 1 25 0	250 22,140 17,020 10,010 0 7,040	5,024 12 5 0 0 0	54,098 35,907 24,780 17,725 23 18,126	670 55 11 15 620 234 161	54,768 35,962 24,791 17,740 643 18,360 164

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

			Recy	cled	Energy 1	Recovery	Т	reated	0	T-4-1	N D d
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
	Titanium	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	tetrachloride	95	0	129,787	0	0	23,836,598	2,928	52,646	24,021,959	11
		980 98n	0	196,905 0	0	1 0	27,810,226 122,039	142,054 0	32,619 0	28,181,805 122,039	265 0
		990	0	176,544	0	1	26,254,965	268,223	27,464	26,727,197	31
		99n	0	0	0	0	17,391	0	0	17,391	0
		00o	0	148,838	0	0	26,156,029	245,617	30,906	26,581,390	544
*	Toluono	00n 88	0 NA	0 NA	0 NA	0 N/A	0 NA	0 NA	0 N/A	0 NA	0 NA
*	Toluene	88 95	1,003,694,351	25,405,761	NA 214,695,485	NA 78,875,766	192,319,445	NA 19,729,534	NA 145,428,668	NA 1,680,149,010	370,172
		98o	1,063,247,036	24,267,552	238,796,347	77,057,633	246,270,842	23,806,245	100,101,323	1,773,546,978	622,924
		98n	30,282,040	3,635,211	303,316	76,798,051	19,686,833	11,316,481	4,235,322	146,257,254	350,281
		990	986,640,480	26,137,795	226,219,936	84,627,383	255,476,794	23,028,131	91,738,500	1,693,869,019	425,084
		99n 00o	32,504,301 1,049,864,539	429,145 29,903,569	618,910 214,193,345	73,385,495 89,429,796	30,035,247 309,483,213	13,279,029 19,401,279	1,234,067 81,895,096	151,486,194 1,794,170,837	206,449 299,421
		000 00n	31,423,692	624,423	694,189	74,224,829	30,076,448	8,001,257	3,109,117	148,153,955	16,955
**	Toluene-2,4-	88	NA	NA NA	NA	NA	NA	NA	NA	NA NA	NA
	diisocyanate	95	427	0	37,664	16,408	3,311	20,201	6,224	84,235	10
		980	393	440	1,410	9,546	13,193	23,162	9,398	57,542	389
		98n 99o	0 80	0	0	40 24,316	8,723 10,188	43,136	302 7,907	9,065 85,627	300 14
		990 99n	0	0	0	418	1,304,958	43,136	14,975	1,321,295	0
		00o	15,650	3,000	0	7,562	15,599	23,822	15,027	80,660	20
		00n	0	0	0	200	410,305	2,674	28,130	441,309	0
**	Toluene-2,6-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	diisocyanate	95 98o	107	0	9,416	3,705	652	1,542	7,510	22,932	2 0
		980 98n	98 0	0	0 0	1,276 0	501 0	2,613 0	1,546 0	6,034 0	0
		990	220	0	0	48	648	8,890	3,275	13,081	0
		99n	0	0	0	0	133,019	0	166	133,185	0
		00o	0	750	0	1,538	512	4,363	3,096	10,259	0
**	T 1	00n	0	0	0	0	87,289	0	0	87,289	0
	Toluene diisocyanate	88 95	NA 15,224	NA 2,784	NA 5,800,065	NA 60,045	NA 2,876,258	NA 195,978	NA 60,100	NA 9,010,454	NA 11,604
	(mixed isomers)	98o	7,260	1,996	7,812,428	2,054,210	1,029,937	299,050	71,319	11,276,200	17,912
	,	98n	0	0	0	40	188,824	0	1	188,865	0
		990	13,350	438	5,076,288	67,400	4,084,948	178,241	39,325	9,459,990	18,373
		99n	0	1.126	0	0	501,918	4,530	4,997	511,445	0
		00o 00n	4,048 0	1,126 0	3,337,852 0	31,966 300	31,928,842 600,391	657,821 1,679	52,401 27,325	36,014,056 629,695	3,118 0
**	o-Toluidine	88	NA	NA	NA	NA	NA	NA	NA	025,055 NA	NA
		95	49	0	95,623	139,297	98,950	127,937	35,498	497,354	0
		98o	220	198	303,180	120,352	150,729	105,606	24,800	705,085	461
		98n	No reports	^	1.052.205	515.050	150.020	57.511	17.600	2 (02 (04	5 122
		99o 99n	0	0	1,953,205 2	515,259 24	150,020 607,614	57,511 0	17,689 639	2,693,684 608,279	5,132 0
		00o	0	0	592,030	206,023	187,639	169,814	22,454	1,177,960	1
		00n	0	0	0	0	382,159	791	103	383,053	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

				_ I					Off-site Releases	
CAS			Total	Total Air	Water	Underground	Releases to	Total On- site	Transfers Off-site to	Total On and Off-site
Number	Chemical	Year	Forms	Emissions	Discharges	Injection	Land	Releases	Disposal	Releases
			Number	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
636-21-5 **	o romanic	88	No reports							
	hydrochloride	95 98o	No reports No reports							
		98n	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	0	0	0	0	0	0
		990	No reports		· ·	· ·	ŭ			Ů
		99n	3	10	1	0	0	11	164	175
		00o	No reports							
0001.25.2	www.com 1	00n	3	0	0	0	0	0	0	0
8001-35-2 *,	** Toxaphene	88 95	No reports							
		93 980	No reports No reports							
		98n	5	13	0	0	25,476	25,489	113	25,602
		99o	No reports				, , , ,	, , , ,		-,
		99n	4	16	1	0	0	17	14	31
	Not comparable	00o	1	0.10	0.00	0.00	0.00	0.10	0.00	0.10
42121 42 2 *	to prior years***	00n	15	20.88	1.62	0.21	5,928.02	5,950.73	176.14	6,126.87
43121-43-3 *	Triadimefon	88 95	NR 1	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0	NR 0
		93 980	4	3	0	0	1	4	0	4
		98n	No reports	3	· ·	· ·	1		Ĭ	7
		990	4	0	0	0	0	0	0	0
		99n	No reports							
		00o	3	2	0	0	0	2	0	2
2303-17-5 *	Triallate	00n	No reports	ND	NID	ND	NID	NID	NID	NR
2303-17-5 *	Trianate	88 95	NR 2	NR 588	NR 0	NR 0	NR 0	NR 588	NR 24,076	24,664
		98o	2 2	519	0	0	0	519	21,640	22,159
		98n	No reports	019	· ·		Ŭ	017	21,0.0	22,100
		99o	3	511	0	0	0	511	436	947
		99n	1	2	0	0	0	2	60	62
		00o	2	507	0	0	0	507	996	1,503
68-76-8	Triaziquone	00n 88	No reports	2	0	0	0	2	0	2
00-70-0	Triaziquone	95	No reports							
		98o	No reports							
		98n	No reports							
		99o	No reports							
		99n	No reports							
		000	No reports							
101200-48-0 *	Tribenuron methyl	00n 88	No reports NR	NR	NR	NR	NR	NR	NR	NR
101200-40-0	Thocharon memyr	95	1	1	0	0	0	1	0	1
		98o	1	1	0	0	0	1	0	1
		98n	No reports							
		99o	1	1	0	0	0	1	0	1
		99n	No reports		_	_				
		000	No mamanta	1	0	0	0	1	0	1
		00n	No reports							

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	<i>типиеи)</i>		Recyc	cled	Energy R	ecovery	Tr	eated	0	T-4-1	Non Burden
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
**	o-Toluidine hydrochloride	88 95	NA No semesta	NA	NA	NA	NA	NA	NA	NA	NA
	nydrocmoride	93 980	No reports No reports								
		98n	0	0	0	0	0	0	0	0	0
		99o	No reports								
		99n	0	0	0	0	191,883	0	168	192,051	0
		00o	No reports	^	_		105.105	5 00	_	407.050	
* *:	* T	00n	0	0	0	0	107,125	733	0	107,858	0
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*Toxaphene	88 95	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
		98o	No reports								
		98n	0	0	0	0	103,929	1	25,602	129,532	0
		99o	No reports								
		99n	0	0	0	0	134,998	28	27	135,053	0
	Not comparable	00o	0.00	0.00	1,072.00	0.00	0.00	0.00	0.10	1,072.10	0.00
*	to prior years*** Triadimefon	00n 88	0.00 NA	0.00 NA	0.00 NA	0.00 NA	210,240.69 NA	589.24 NA	6,008.37 NA	216,838.30 NA	0.00 NA
	madificion	95	0	0	0	0	0	0	0	0	0
		98o	0	0	0	0	280	1,984	4	2,268	0
		98n	No reports					ĺ		,	
		99o	0	0	0	0	0	0	0	0	0
		99n	No reports								
		00o	0	0	0	0	342	458	2	802	0
*	Triallate	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trianate	95	19,838	0	0	0	93,000	52,830	24,149	189,817	0
		98o	0	0	0	0	6,480	97,751	22,410	126,641	0
		98n	No reports								
		99o	840	0	0	0	1,700	47,151	1,446	51,137	0
		99n	0	0	0	0	11,125	0	62	11,187	0
		00o 00n	884 0	0	0	0	35 22,075	32,121 766	1,994 2	35,034 22,843	0
	Triaziquone	88	NA NA	NA	NA NA	NA	22,073 NA	NA	NA	22,843 NA	NA NA
	muziquone	95	No reports	11/21	1121	1421	1111	1121	1421	141	141
		98o	No reports								
		98n	No reports								
		99o	No reports								
		99n	No reports								
		00o 00n	No reports No reports								
*	Tribenuron methyl		NA	NA	NA	NA	NA	NA	NA	NA	NA
	,	95	0	0	0	0	0	5,144	1	5,145	0
		98o	0	0	0	0	0	13,016	1	13,017	0
		98n	No reports		_		_	4			
		990	0	0	0	0	0	14,832	1	14,833	0
		99n 00o	No reports 0	0	0	0	0	17,700	1	17,701	0
		000 00n	No reports	U	U	U	U	1/,/00	1	17,701	
		0011	140 reports								

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

Commi							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
1983-10-4	*	Tributyltin fluoride	88 95 980 98n 990 99n 000 00n	NR 1 No reports No reports No reports No reports No reports	NR 0	NR 23	NR 0	NR 0	NR 23	NR 0	NR 23
2155-70-6	*	Tributyltin methacrylate	88 95 980 98n 990	NR 2 2 No reports 3	NR 25 14 510	NR 23 10	NR 0 0	NR 0 0	NR 48 24 510	NR 0 0	NR 48 24 510
			99n 00o 00n	No reports 5 No reports	1,965	0	0	0	1,965	260	2,225
78-48-8	*	S,S,S-Tributyltri- thiophosphate	88 95 980 98n 990 99n 000 00n	NR 2 2 No reports 2 No reports 1 No reports	NR 1,730 250 250	NR 2 36 161	NR 0 0 0	NR 0 0 0	NR 1,732 286 411	NR 0 0 0	NR 1,732 286 411
52-68-6	*	Trichlorfon	88 95 980 98n 990 99n 000 00n	5 2 5 No reports 2 1 2 1	253 0 2 0 39 0 409	0 0 0 0	0 0 0 0 0 0	0 0 0 0 11,242 0	253 0 2 0 11,281 0 409	487 0 0 0 6,058 0 11,518	740 0 2 0 17,339 0
76-02-8		Trichloroacetyl chloride	88 95 980 98n 990 99n 000 00n	NR 1 1 No reports 1 No reports 1 No reports	NR 1 1 1	NR 0 0 0 0	NR 0 0 0	NR 0 0 0	NR 1 1 1 1	NR 0 0 0	NR 1 1 1 1 1
120-82-1	*	1,2,4-Trichloro- benzene	88 95 980 98n 990 99n 000 00n	57 31 27 7 28 6 24 10	1,532,913 168,490 165,368 765 172,488 1,142 157,673 1,022	31,628 259 191 250 266 1 114	7,408 12,500 8,960 5 7,100 0 2,900 250	3,073 0 20 0 10 0 0	1,575,022 181,249 174,539 1,020 179,864 1,143 160,687 1,277	164,144 41,648 1,651 507 1,409 543 3,702 924	1,739,166 222,897 176,190 1,527 181,273 1,686 164,389 2,201

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Recyc	eled	Energy R	ecovery	Tı	eated	Quantity	Total	Non-Produc-
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Released On-and Off-site Pounds	Production- related Waste Managed Pounds	tion-Produc- tion-related Waste Managed Pounds
Tributyltin fluoride	88 95 980 98n 990 99n 000 00n	NA 0 No reports	NA 0	NA 0	NA 0	NA 250	NA 0	NA 23	NA 273	NA 0
Tributyltin methacrylate	88 95 980 98n	NA 0 253 No reports	NA 0 0	NA 0 0	NA 25 419	NA 9,096 0	NA 4,320 0	NA 48 34	NA 13,489 706	NA 0 0
	990 99n 000 00n	3,458 No reports 0 No reports	0 11,613	0	3,218 6,210	0 11	3,100 5,660	3,330 2,765	13,106 26,259	0
S,S,S-Tributyltri- thiophosphate	88 95 980 98n 990	NA 0 0 No reports 0	NA 0 0	NA 0 0	NA 0 0	NA 2,541 10,276	NA 316 691	NA 1,717 367	NA 4,574 11,334 14,427	NA 0 0
	99n 00o 00n	No reports 0 No reports	0	0	0	1,891	85	12	1,988	0
Trichlorfon	88 95 980 98n	NA 0 0 No reports	NA 0 0	NA 0 0	NA 0 0	NA 0 213	NA 0 2,831	NA 0 2	NA 0 3,046	NA 0 0
	990 99n 000 00n	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 1,331 0 785	890 0 480 0	890 17,339 480 11,927	1,780 18,670 960 12,712	0 0 0 0
Trichloroacetyl chloride	88 95 980 98n	NA 0 0 No reports	NA 0 0	NA 0 0	NA 0 0	NA 0 0	NA 0 0	NA 1 1	NA 1	NA 0 0
	990 99n 000 00n	0 No reports 0 No reports	0	0	0	0	0	1	1	0
1,2,4-Trichloro- benzene	88 95 980 98n 990 99n 000 00n	NA 40,745 1,115,301 0 1,262,006 0 1,203,313	NA 10,541 22,393 0 6,595 0 15,884	NA 2,400 66,119 0 1,494,567 0 539,513	NA 108,129 15,718 9,500 59,115 2,963 17,908 3,925	NA 1,137,925 625,874 88,370 1,036,698 469,316 469,926 494,756	NA 393,319 199,720 216 234,017 1 199,764 1,395	NA 183,352 175,704 697 180,739 698 163,101 969	NA 1,876,411 2,220,829 98,783 4,273,737 472,978 2,609,409 501,045	NA 6,386 35 0 181 0 9

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commu							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
71-55-6	*	1,1,1-Trichloro- ethane	88 95	3,921 812	180,841,849 23,587,848	95,624 1,118	1,000 126	204,923 38,690	181,143,396 23,627,782	5,947,625 125,028	187,091,021 23,752,810
			980 98n	129 38	816,617 24,356	417 250	0	4,980	822,014 24,606	11,791 19,178	833,805 43,784
			990 99n	59 35	404,408 6,495	45 0	0	276 15,705	404,729 22,200	521 52,546	405,250 74,746
70.00.5	*	1.1.2 Triabless	00o 00n	47 28	263,607 3,814	74 11	5	14,296	263,683 18,126	1,433	263,940 19,559
79-00-5	*	1,1,2-Trichloro- ethane	88 95 980	29 22	1,741,442 280,352	5,303 870	0	89	1,746,834 281,222	19,810 113	1,766,644 281,335
			980 98n 990	22 13 25	279,470 743 198,488	540 250 925	0 5 0	1 0 123	280,011 998 199,536	1,203 1,123 91	281,214 2,121 199,627
			99n 00o	10 22	633	1 567	0	13,665 110	14,299 90,971	393 6,919	14,692 97,890
79-01-6	* **	Trichloroethylene	00n 88	11 953	645 55,943,736	5 13,801	5 390	11,703 21,186	12,358 55,979,113	538	12,896 57,445,582
/9-01-0	.,	Tricmoroemyiene	95 980	747 579	26,284,104 13,193,121	1,477 872	550 588	3,577 800	26,289,708 13,195,381	74,145 98,024	26,363,853 13,293,405
			98n 99o	151 500	30,405 10,534,615	10 1,043	5	0 138,522	30,420 10,674,180	28,029 114,290	58,449 10,788,470
			99n 00o	142 464	25,195 9,685,925	1 585	0	10,345	35,541 9,686,620	52,671 117,079	88,212 9,803,699
75-69-4	*	Trichlorofluoro-	00n 88	131 NR	30,091 NR	8 NR	47,877 NR	9,603 NR	87,579 NR	53,222 NR	140,801 NR
75-07-4		methane (CFC-11)	95 98o	54 29	959,461 441,009	410 1,484	22	0	959,893 442,493	272	960,165 442,494
			98n 99o	14 30	2,258 395,516	250 1,000	250 0	0	2,758 396,516	108	2,866 396,518
			99n 00o	11 30	7,141 301,348	1 961	0	10,078 0	17,220 302,309	14,674 0	31,894 302,309
95-95-4	*	2,4,5-Trichloro-	00n 88	12 1	2,457 91	5	0	0	2,462 91	141 20	2,603 111
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		phenol	95 98o	No reports	198	36	0	69	303	0	303
			98n 99o	2	3 263	0 41	0	0 78	3 382	0	3 382
			99n 00o	5	16 327	1 51	0	21,844	21,861 378	269 0	22,130 378
88-06-2	* **	2,4,6-Trichloro-	00n 88	4 3	7 250	0 50	12,000	36,021	36,028 12,300	77 10	36,105 12,310
00 00 2	,	phenol	95 98o	1	161 114	210 26	0	0	371 140	0	371 140
			98n 99o	3 2	4 86	0 38	0	0 2	4 126	10 0	14 126
			99n 00o	3	4 104	1 29	0	2,000	2,005 134	6 0	2,011 134
			00n	4	5	0	0	0	5	2	7

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Rec	ycled	Energy 1	Recovery	Т	reated	0	T-4-1	N D d
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
* 1,1,1-Trichloro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
ethane	95	60,033,102	3,743,237	3,718,698	1,060,204	1,108,250	1,340,934	23,405,162	94,409,587	14,502
	98o	1,173,558	157,496	2,508,207	489,624	455,010	236,114	781,290	5,801,299	19,815
	98n	1,103,154	7,057	474,196	2,237,132	1,424,735	671,480	28,453	5,946,207	30
	99o	580,363	61,748	1,537,877	506,102	1,635,948	134,998	420,735	4,877,771	847
	99n	1,104,696	144,857	505,336	978,272	2,689,147	317,804	28,120	5,768,232	136
	00o	563,428	24,504	543,804	612,215	2,063,051 2,406,312	233,459	256,232	4,296,693 4,427,605	78
* 1,1,2-Trichloro-	00n 88	412,382 NA	12,200 NA	802,456 NA	731,361 NA	2,406,312 NA	44,936 NA	17,958 NA	4,427,605 NA	148 NA
ethane	95	18,699,000	11,817,647	12,091,000	200,596	24,559,416	3,265,021	275,059	70,907,739	481
Culanc	98o	55,855,000	12,399,585	4,961,599	47	43,283,780	2,017,174	284,126	118,801,311	48
	98n	0	0	0	33,005	1,166,146	38,490	1,550	1,239,191	0
	990	50,477,000	16,038,204	189,669	3,866	43,700,428	754,218	201,011	111,364,396	892
	99n	0	0	0	208,583	2,586,183	54	14,082	2,808,902	0
	00o	50,811,610	7,445,333	4,067,013	180	42,179,641	1,293,606	95,999	105,893,382	159
	00n	0	0	0	75,380	1,522,859	95	12,341	1,610,675	0
*,**Trichloroethylene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	153,798,396	8,515,873	2,624,155	1,112,208	5,218,927	2,311,864	26,001,213	199,582,636	221,300
	98o	133,198,282	4,809,933	2,418,830	654,278	6,221,614	1,215,489	13,126,663	161,645,089	123,658
	98n	3,921,526	3,302	3,559	816,314	1,338,616	6,251,209	37,442	12,371,968	372
	99o	132,298,261	4,029,727	3,511,302	703,687	4,516,041	1,281,010	10,411,995	156,752,023	50,250
	99n	5,192,547	34,880	4,093	571,103	2,342,614	652,490	62,997	8,860,724	108
	00o	121,000,997	3,519,538	1,789,179	801,172	4,070,320	1,095,945	9,768,255	142,045,406	50,579
	00n	5,200,656	25,350	3,387	975,956	1,617,563	491,114	130,027	8,444,053	3,777
* Trichlorofluoro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
methane (CFC-11)		138,712	227,287	618,422	170,699	4,200	291,955	961,314	2,412,589	1,036
	980	0	138,866	210,039	10,519	63,773	284,534	442,016	1,149,747	25
	98n 99o	36,075	92,780	0 1,189,772	117,603 31,000	569,323 39,251	13,150 447,241	2,135 403,355	702,211 2,239,474	0 8,686
	990 99n	47,450	92,780	1,189,772	93,082	578,508	10,859	22,108	752,007	0,000
	9911 00o	47,430	102,023	232,249	608	69,210	386,574	302,611	1,093,275	2
	000 00n	171,898	102,023	0	11,684	507,878	4,064	2,416	697,940	0
* 2,4,5-Trichloro-	88	NA	NA	NA	NA NA	NA	NA	NA	NA	NA
phenol	95	No reports	1,12	1,12	1112	1,12	1112	11.1	1,11	1,12
P	98o	0	0	0	0	23,152	5	303	23,460	0
	98n	0	0	0	0	28,000	0	3	28,003	0
	99o	0	0	0	0	26,020	0	382	26,402	0
	99n	0	0	0	0	317,709	40	22,153	339,902	0
	00o	0	0	0	0	32,443	0	378	32,821	0
	00n	0	0	0	0	89,256	0	36,105	125,361	0
*,**2,4,6-Trichloro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenol	95	0	0	0	0	1,294,115	0	371	1,294,486	0
	98o	0	0	0	0	1,100,000	0	140	1,100,140	0
	98n	0	0	0	0	28,000	0	10	28,010	0
	99o	0	0	0	0	1,264,603	46	120	1,264,769	0
	99n	0	0	0	0	134,939	0	7	134,946	2,000
	00o	0	12.022	0	0	1,170,000	0	133	1,170,133	0
	00n	0	13,933	0	0	73,994	0	6	87,933	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
96-18-4 **	1,2,3-Trichloro- propane	88 95 980 98n	NR 5 8 No reports	NR 11,081 13,837	NR 1,600 300	NR 0 0	NR 0 0	NR 12,681 14,137	NR 0 6,758	NR 12,681 20,895
		990 99n 000 00n	9 3 10 1	13,931 28 16,594 20	2,300 0 5,498 0	0 0 0 0	0 8,189 28 0	16,231 8,217 22,120 20	0 4,412 0 0	16,231 12,629 22,120 20
57213-69-1 *	Triclopyr triethyl- ammonium salt	88 95 980 98n	NR 1 3 No reports	NR 3 6	NR 0 0	NR 0 0	NR 0 0	NR 3 6	NR 0 0	NR 3 6
		990 99n 00o	1 No reports 3	37 9	0	0	0	37 9	0	37 9
121-44-8	Triethylamine	00n 88 95 980 98n 990	No reports	NR 2,138,276 1,571,464 1,641 1,972,119	NR 27,705 26,281 0 17,937	NR 309,512 186,190 0 28,659	NR 14,010 23,755 0 35,032	NR 2,489,503 1,807,690 1,641 2,053,747	NR 17,181 56,293 20 289,541	NR 2,506,684 1,863,983 1,661 2,343,288
		99n 00o 00n	17 168 18	3,139 1,890,672 2,098	0 25,406 1,812	18,990 0	0 13,937 0	3,139 1,949,005 3,910	259 117,451 2,521	3,398 2,066,456 6,431
1582-09-8 *	Trifluralin	88 95 980 98n 990 99n	17 23 18 2 19	3,277 17,144 9,180 13 5,183 2	601 92 250 0 0	0 0 0 0 0	0 8,250 5 0 0	3,878 25,486 9,435 13 5,183	40,557 24,490 29,888 0 14,631	44,435 49,976 39,323 13 19,814
	Not comparable to prior years***	00o 00n	20 11	5,497.46 6.69	0.00 0.00	0.00 0.00	8,155.00 11,216.00	13,652.46 11,222.69	2,705.10 43.57	16,357.56 11,266.26
26644-46-2 *	Triforine	88 95 980 98n 990 99n	NR 2 1 No reports No reports No reports	NR 755 0	NR 0 0	NR 0 0	NR 0 0	NR 755 0	NR 0 0	NR 755 0
05.62.6	1045	00o 00n	No reports	187	0	0	0	187	0	187
95-63-6	1,2,4-Trimethylbenzene	88 95 980 98n 990 99n 000 00n	294 821 893 636 901 604 923 597	4,265,650 7,731,612 7,800,979 134,050 7,804,130 152,720 7,284,928 220,542	10,088 8,822 7,587 948 5,231 1,619 6,828 968	7,964 2,886 6,650 0 2,295 0 3,710	61,583 43,921 14,752 3,045 9,320 1,054 7,966 3,754	4,345,285 7,787,241 7,829,968 138,043 7,820,976 155,393 7,303,432 225,264	200,616 60,078 167,584 13,357 102,721 8,912 131,261 47,591	4,545,901 7,847,319 7,997,552 151,400 7,923,697 164,305 7,434,693 272,855

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	onunueu)		Recy	cled	Energy 1	Recovery	Т	reated	Quantity	Total	Non Buoduo
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
**	1,2,3-Trichloro-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	propane	95	88,000	9	460,000	0	1,330,000	10,000,000	12,551	11,890,560	0
		98o 98n	7,100,000 No reports	0	870,000	0	2,553,000	5,949,995	14,187	16,487,182	0
		990	9,300,000	0	678,000	0	46,789,300	660,000	16,243	57,443,543	0
		99n	0	0	0	0	495,664	0	12,629	508,293	0
		00o	12,000,000	0	5,610,685	0	56,314,442	3,219,000	22,182	77,166,309	0
*	Tui al anym tui athyd	00n 88	0 NA	0 NA	0 NA	0	483,606 NA	0	20 NA	483,626	0 NA
	Triclopyr triethyl- ammonium salt	88 95	NA 0	NA 0	NA 0	NA 0	NA 4	NA 110	NA 3	NA 117	0 NA
	difficilitatii sait	98o	0	0	0	0	0	70	6	76	0
		98n	No reports								
		99o	0	0	0	0	55	68	37	160	0
		99n 00o	No reports 0	0	0	0	15	130	9	154	0
		000 00n	No reports	U	U	U	13	130	,	134	0
	Triethylamine	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	488,423	428,122	34,114	531,959	1,615,455	1,052,880	2,619,129	6,770,082	7
		98o	332,653	677,152	380,472	399,750	4,290,600	864,021	2,135,632	9,080,280	114
		98n 99o	0 113,198	0 738,564	0 479,881	12,584 465,999	112,632 3,669,969	3,831 1,106,617	1,748 2,668,010	130,795 9,242,238	373
		99n	0	738,304	6,865	2,386	192,036	818	2,008,010	204,887	107
		00o	151,958	917,447	218,850	681,705	3,741,654	849,728	2,099,094	8,660,436	209
		00n	0	0	1,720	6,954	1,197,422	3,350	8,218	1,217,664	0
*	Trifluralin	88	NA	NA	NA	NA 2	NA oo ooo	NA	NA	NA	NA 0.212
		95 98o	2,107 80,000	0	0	3 0	99,980 6,880	76,583 75,025	54,675 30,415	233,348 192,320	9,312 0
		98n	0	0	0	0	29,827	0	10	29,837	0
		99o	89,000	0	0	0	1,700	71,489	23,220	185,409	0
		99n	0	0	0	0	38,510	0	2	38,512	0
	Not comparable	00o	7,501.00	0.00	0.00	0.00	121.00	77,106.00	21,993.31	106,721.31	45.00
*	to prior years*** Triforine	00n 88	0.00 NA	0.00 NA	0.00 NA	228.00 NA	16,588.08 NA	32,701.00 NA	11,266.16 NA	60,783.24 NA	0.00 NA
	1111011110	95	0	0	0	0	0	300	890	1,190	0
		98o	0	0	0	0	0	0	0	0	0
		98n	No reports								
		99o 99n	No reports No reports								
		99n 00o	No reports	0	0	0	0	118	182	300	0
		00n	No reports	· ·		Ŭ		110	102	300	Ů
	1,2,4-Trimethyl-	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	benzene	95 08-	15,823,608	1,532,353	5,119,569	3,000,631	9,484,423	541,590	7,954,793	43,456,967	11,067
		980 98n	14,522,822 1,750,455	1,914,690 614,296	8,203,022 12,446	3,655,945 196,546	10,456,412 617,270	736,916 115,464	8,035,998 830,095	47,525,805 4,136,572	4,415 149,331
		990	19,070,746	1,625,178	11,802,710	3,549,543	10,780,933	636,985	8,009,062	55,475,157	5,756
		99n	2,786,952	104,736	15,322	1,460,211	395,085	33,741	130,101	4,926,148	25,820
		00o	10,226,025	2,166,067	8,685,184	3,692,172	11,996,864	695,705	7,435,394	44,897,411	5,366
		00n	2,404,550	112,067	5,262	1,440,369	247,607	118,497	202,663	4,531,015	4,730

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).

^{***} Data for PBT chemicals, due to threshold change for 2000 reporting year, are not comparable to prior year reporting. See Chapter 3 for more information.



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) *(continued)*

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
2655-15-4	*	2,3,5-Trimethyl- phenyl methyl- carbamate	88 95 980 98n 990 99n 000 00n	NR No reports	NR	NR	NR	NR	NR	NR	NR
639-58-7	*	Triphenyltin chloride	88 95 980 98n 990 99n 000 00n	NR 1 1 No reports 1 No reports 1 No reports	NR 0 0 3	NR 0 0 0	NR 0 0 0	NR 0 0 0	NR 0 0 3	NR 0 0 0	NR 0 0 3
76-87-9	*	Triphenyltin hydroxide	88 95 980 98n 990 99n 000 00n	NR 3 3 No reports 5 No reports 5 No reports	NR 21 7 1,001 1,002	NR 0 0 0	NR 0 0 0	NR 0 0 0	NR 21 7 1,001 1,002	NR 250 235 1,085	NR 271 242 2,086 1,002
126-72-7	**	Tris(2,3-dibromo- propyl) phosphate	88 95 980 98n 990 99n 000 00n	No reports No reports No reports 1 No reports 1 No reports 2	0 2 0	0 1 0	0 0	0 0	0 3	0 5	0 8 0
72-57-1	**	Trypan blue	88 95 980 98n 990 99n 000 00n	NR No reports 1 1 No reports 3 No reports	NR 0 0 5 5 0	NR 0 0	0 0 0	NR 0 0 0	NR 0 0 5 5	NR 0 0 163 0	NR 0 0 168
51-79-6	**	Urethane	88 95 980 98n 990 99n 000 00n	11 4 2 1 1 6 4	145,123 124 1,413 4 0 90 21 23	0 0 22 0 0 1 29,580 0	0 0 0 0 0 0 0	0 0 0 0 0 14,249 33 12,634	145,123 124 1,435 4 0 14,340 29,634 12,657	1,350 3,750 0 2,224 0 929 0	146,473 3,874 1,435 2,228 0 15,269 29,634 12,657

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

	<i>эниниеи)</i>		Recyc	eled	Energy R	Recovery	T	reated	0	T-4-1	N D d
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
*	2,3,5-Trimethyl- phenyl methyl- carbamate	88 95 980 98n 990 99n 000 00n	NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
*	Triphenyltin chloride	88 95	NA 0	NA 0	NA 0	NA 0	NA 2,555	NA 0	NA 0	NA 2,555	NA 0
		980 98n	0 No reports	0	0	0	0	0	0	0	0
		99o	0	0	0	0	26,226	0	3	26,229	0
		99n 00o 00n	No reports 0 No reports	0	0	0	10,273	0	1	10,274	0
*	Triphenyltin	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	hydroxide	95 98o	0	0	0	1 0	109,816 16,465	390 1,273	401 237	110,608 17,975	0
		98n	No reports								
		99o 99n	0 No reports	0	0	0	6,900	2,867	609	10,376	0
		00o	0	0	0	0	24,570	1,158	87	25,815	0
**	Tris(2,3-dibromo- propyl) phosphate	00n 88 95	No reports NA No reports	NA	NA	NA	NA	NA	NA	NA	NA
		980 98n	No reports 0	0	0	0	0	0	0	0	0
		99o 99n	No reports 0	0	0	0	33,000	0	2	33,002	0
		00o 00n	No reports 0	0	0	0	12,345	975	0	13,320	0
**	Trypan blue	88	NA	NA	NA	NA	12,343 NA	NA	NA	NA	NA NA
		95 08a	No reports	0	0	0	0	0	0	0	0
		98o 98n	0	0	0	0	0	0	0	$\begin{pmatrix} 0 \\ 0 \end{pmatrix}$	0
		99o	No reports								
		99n 00o	0 No reports	0	0	0	192,524	0	168	192,692	0
		000 00n	0	0	0	0	106,258	781	0	107,039	0
**	Urethane	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95 080	0	0	0	0	0 26 432	1,165	4,742	5,907	2,500
		98o 98n	0	0	0	0	26,432 142,049	0	1,435 2,228	27,867 144,277	0
		99o	0	0	0	0	0	0	0	0	0
		99n	0	0	518	1,473	680,048	0	14,765	696,804	0
		00o 00n	0	0	0 11,724	0 13,409	8 394,649	0 34,723	29,634 12,657	29,642 467,162	0
		OUII	U	U	11,/24	13,409	374,049	34,123	12,03/	407,102	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

							On-site Releases			Off-site Releases	
CAS Number		Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
7440-62-2		Vanadium (except when contained in an alloy)	88 95 980 98n 990 99n 000	DC DC DC DC DC DC	DC DC DC DC DC DC T7,173	DC DC DC DC DC DC DC	DC DC DC DC DC DC 8,121	DC DC DC DC DC DC DC 300,413	DC DC DC DC DC DC 327,966	DC DC DC DC DC DC	DC DC DC DC DC DC DC 484,633
		Vanadium compounds	00n 88 95 980	29 NR NR NR	64,040 NR NR NR	1,381 NR NR NR	0 NR NR NR	1,099,153 NR NR NR	1,164,574 NR NR NR	1,064,181 NR NR NR	2,228,755 NR NR NR
			98n 990 99n 00o 00n	NR NR NR 129 330	NR NR NR 111,847 2,053,402	NR NR NR 303,790 285,126	NR NR NR 1,192,983	NR NR NR 7,677,369 66,997,380	NR NR NR 9,285,989 69,335,908	NR NR NR 1,480,871 4,759,949	NR NR NR 10,766,860 74,095,857
50471-44-8	*	Vinclozolin	88 95 980 98n 990 99n 000	NR 2 2 No reports 1 No reports	NR 0 10 0	NR 0 0	NR 0 0	NR 0 0	NR 0 10	NR 0 750 0	NR 0 760 0
108-05-4	**	Vinyl acetate	00n 88 95 980 98n	No reports 146 156 195 12	6,087,497 4,104,397 3,344,797 35,943	10,021 8,269 3,665 0	2,109,851 783,829 285,141 0	18,889 1,717 1,125 55,000	8,226,258 4,898,212 3,634,728 90,943	21,811 45,052 108,410 18,957	8,248,069 4,943,264 3,743,138 109,900
502 (0.2	**	V. 11 11	990 99n 000 00n	186 12 187 11	3,363,281 28,832 3,132,667 19,020	3,948 0 2,377 0	286,764 0 223,927 0	2,029 36,311 5,955 98,854	3,656,022 65,143 3,364,926 117,874	35,734 336,802 17,697 481	3,691,756 401,945 3,382,623 118,355
593-60-2	***	Vinyl bromide	88 95 980 98n 990 99n 000	2 2 1 No reports 2 No reports No reports	4,950 54,930 0 500	400 0 0	0 0 0	0 0 0	5,350 54,930 0 500	0 0 0	5,350 54,930 0 500
75-01-4	**	Vinyl chloride	95 980 980 980 990 990 900 000	No reports 53 48 46 9 45 6 45 7	1,439,189 1,044,665 884,214 1,473 850,910 1,691 770,457 1,887	2,051 525 78 0 102 1 177 5	53 33 149 5 405 0 63 43,587	4,409 1 0 0 1 0 0 0	1,445,702 1,045,224 884,441 1,478 851,418 1,692 770,697 45,479	4,555 15,645 68,039 1,175 477 13,538 615	1,450,257 1,060,869 952,480 2,653 851,895 15,230 771,312 45,487

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

100	ontinuea)		Recy	cled	Energy	Recovery	Т	reated	0 1"1	T	N D I
	Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
	Vanadium (except	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	when contained	95	DC	DC	DC	DC	DC	DC	DC	DC	DC
	in an alloy)	98o	DC	DC	DC	DC	DC	DC	DC	DC	DC
		98n 99o	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC
		99n	DC	DC	DC	DC	DC	DC	DC	DC	DC
		00o	94,386	794,051	0	0	0	10,970	416,194	1,315,601	1
		00n	0	90,657	0	0	0	0	2,184,938	2,275,595	70,529
	Vanadium	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	compounds	95	NR	NR	NR	NR	NR	NR	NR	NR	NR
		98o	NR	NR	NR	NR	NR	NR	NR	NR	NR
		98n	NR	NR	NR	NR	NR	NR	NR	NR	NR
		99o	NR	NR	NR	NR	NR	NR	NR	NR	NR
		99n 00o	NR 1,369,462	NR 2,699,275	NR 8	NR 0	NR 46,762	NR 60,596	NR 10,188,015	NR 14,364,118	NR 51,966
		000 00n	23,547	5,070	0	0	119,364	91	70,988,877	71,136,949	3,200,000
*	Vinclozolin	88	NA	NA	NA	NA	NA	NA NA	70,588,877 NA	71,130,545 NA	3,200,000 NA
	,	95	0	0	0	0	0	1,030	0	1,030	0
		98o	0	0	0	0	650	660	1	1,311	0
		98n	No reports								
		99o	0	0	0	0	0	0	0	0	0
		99n	No reports								
		00o	0	0	0	0	0	0	0	0	0
**	Vinyl acetate	00n 88	No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
	villyi acctate	95	311,385	533,356	15,379,353	6,544,593	19,204,933	9,194,987	5,195,025	56,363,632	14,788
		98o	993,710	86,990	18,008,261	14,361,541	27,164,709	1,452,870	3,578,002	65,646,083	62,310
		98n	0	1	0	2,444,457	741,302	45,992	109,100	3,340,852	0
		99o	1,158,990	13,249	21,815,185	12,228,901	18,156,883	697,376	3,704,605	57,775,189	2,313,481
		99n	0	0	0	1,345,712	2,516,017	393,581	66,430	4,321,740	0
		00o	1,038,436	3,896	18,585,538	10,634,962	12,555,899	1,923,013	3,449,688	48,191,432	13,764
		00n	0	0	0	297,156	2,204,338	1,273	117,960	2,620,727	3
**	Vinyl bromide	88	NA	NA	NA	NA	NA 26	NA	NA	NA	NA
		95 98o	0	0	0	0	36 0	0	54,910 0	54,946 0	0
		980 98n	No reports	U	U	U	0	U	U	U	U
		990	0	0	0	0	0	0	50	50	0
		99n	No reports	Ű		Ŭ	Ů	Ű			
		00o	No reports								
		00n	No reports								
**	Vinyl chloride	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
		95	318,121,038	90,685	23,368,507	20,853	40,034,145	55,842	1,051,733	382,742,803	31,505
		98o	377,999,298	857,715	40,383,408	14,028	36,705,295	275,230	873,395	457,108,369	19,820
		98n	0	795 122	0	6,752	320,294	315,826	1,421	644,293	0
		99o 99n	421,183,195 139,884	785,132 0	28,607,150 0	13,644	35,675,866 378,842	439,386	902,010	487,606,383 644,442	57,475
		99n 00o	427,180,214	754,310	25,758,167	124,028 11,120	34,091,352	101 273,550	1,587 933,650	489,002,363	10 20,698
		00n	0	754,510	3	2,191	342,334	173	45,496	390,197	20,098
_		5 511	<u> </u>	3		2,171	2.2,231	1,3	15,170	270,177	

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

						On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
75-35-4	* Vinylidene chloride	88 95 980 98n 990	21 24 25 8 25	296,353 194,160 179,621 1,903	3,462 642 311 250 132	170 0 218 45,812 99	429 0 0 82,000	300,414 194,802 180,150 129,965	44,281 260 3 12,354	344,695 195,062 180,153 142,319
		99n 00o 00n	8 24 11	152,040 6,644 145,662 1,603	1 1,624 10	0 199 5	14,945 36 328,936	152,271 21,590 147,521 330,554	8 929 7 1,177	152,279 22,519 147,528 331,731
	Warfarin and salts	88 95 980 98n 990	NR No reports No reports No reports	NR	NR	NR	NR	NR	NR	NR
		99n 00o	No reports	10	0	0	0	10	327	337
108-38-3	m-Xylene	00n 88	68	2 2,463,043 1,163,526	2,566	0	18,045	2,483,654	72 107,746	74 2,591,400
		95 980 98n 990 99n	62 75 12 70 14	1,163,326 1,202,991 4,315 983,487 14,881	892 1,065 5 85	569 4,199 0 3,578	13,838 860 0 3,945	1,178,825 1,209,115 4,320 991,095 14,884	8,650 29,929 10 45,753	1,187,475 1,239,044 4,330 1,036,848 14,884
		00o 00n	61 13	723,037 9,962	188 5	3,555 0	5,534 20	732,314 9,987	17,368 1,025	749,682 11,012
95-47-6	o-Xylene	88 95 980 98n 990 99n	66 67 82 22 80 19	2,241,814 1,384,483 1,345,071 1,885 882,321 11,910	2,786 869 960 5 82	250 569 3,088 0 3,379	22,461 485 41,350 0 44,284	2,267,311 1,386,406 1,390,469 1,890 930,066 11,913	52,881 1,152 101,998 779 138,162	2,320,192 1,387,558 1,492,467 2,669 1,068,228 11,913
		00o 00n	77 21	750,384 1,400	2,560 5	3,376 0	606 20	756,926 1,425	34,570 0	791,496 1,425
106-42-3	p-Xylene	88 95 980 98n 990 99n 000	48 39 51 8 45 10 45	5,992,743 2,937,312 1,841,632 13,269 1,811,010 22,169 1,289,699	3,200 532 725 5 87 0 193	0 569 3,227 0 3,578 0 3,555	49,226 29,401 55 0 280 290 166	6,045,169 2,967,814 1,845,639 13,274 1,814,955 22,459 1,293,613	31,108 1,261 18,212 0 22,692 2,106 8,242	6,076,277 2,969,075 1,863,851 13,274 1,837,647 24,565 1,301,855
1330-20-7	* Xylene (mixed isomers)	00n 88 95 980 98n 990 99n 000	11 3,470 3,331 2,894 820 2,760 782 2,636 773	40,614 158,995,558 97,994,099 69,458,517 573,520 67,341,083 501,709 56,709,188 1,022,526	5 204,480 33,834 52,147 5,349 25,083 5,008 73,110 9,354	0 144,728 123,396 121,085 2,788 49,979 37,541 76,143 75,035	0 558,257 99,791 41,461 70,548 42,887 211,146 32,899 110,346	40,619 159,903,023 98,251,120 69,673,210 652,205 67,459,032 755,404 56,891,340 1,217,261	0 6,455,911 592,263 817,197 687,916 1,084,583 1,037,349 980,632 350,381	40,619 166,358,934 98,843,383 70,490,407 1,340,121 68,543,615 1,792,753 57,871,972 1,567,642

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

		Rec	ycled	Energy	Recovery	Т	reated	0	T-4-1	Non Donadoro
Chemical	Year	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
Vinylidene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
chloride	95	1,438,000	55	190,253	102,442	6,754,882	85,282	177,994	8,748,908	16,577
	980	1,830,000	8,605	125,000	82,946	3,494,987	15,029	180,208	5,736,775	81
	98n	0	21.960	100,000	8,069	799,244	2,116	142,052	951,482	1.45
	99o 99n	3,977,000 0	21,860	100,000	65,165 1,799	1,498,463 1,046,020	40,816 194	152,251 56,156	5,855,555 1,104,169	145
	000	1,620,000	2,925	200,000	44,472	1,751,584	23,788	146,739	3,789,508	773
	00n	77,000	0	0	43,000	1,157,193	43,921	35,023	1,356,137	2
Warfarin and salts	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	No reports								
	98o	No reports								
	98n	No reports								
	990	No reports								
	99n	0	0	0	0	309,501	1	338	309,840	C
	00o 00n	No reports 0	0	0	0	202,284	0	74	202,358	C
m-Xylene	88	NA NA	NA	NA	NA	202,264 NA	NA	NA	202,338 NA	NA NA
III Try tone	95	1,917,515	27,006	4,141,480	246,197	3,100,716	131,806	1,172,514	10,737,234	1,431
	980	1,912,614	162,262	9,462,285	242,126	1,084,879	124,993	1,237,076	14,226,235	19,071
	98n	2,913	80	0	194,683	0	1,045	4,129	202,850	0
	99o	1,333,398	110,315	11,882,415	308,166	925,163	93,300	1,004,817	15,657,574	15,144
	99n	2,311	2,357	0	178,261	35,289	10,616	14,997	243,831	134
	00o	4,344,222	350,264	10,109,064	371,350	864,439	40,644	749,575	16,829,558	426
V 1	00n	4	80	0	73,871	25,342	20	10,740	110,057	2
o-Xylene	88 95	NA 317,695	NA 50 486	NA 15 562 807	NA	NA 2 210 246	NA 814,980	NA 1,448,714	NA 22,283,376	NA 11,491
	93 980	102,107	59,486 14,743	15,563,897 6,965,568	1,859,258 1,756,281	2,219,346 2,049,794	815,174	1,448,714	13,104,899	14,899
	98n	1,260	475	0,703,308	192,004	49,441	552	1,999	245,731	(14,022
	990	75,426	7,358	7,989,008	1,838,625	2,063,253	409,431	1,162,419	13,545,520	13,448
	99n	972,480	1,406	0	181,552	0	4,662	11,963	1,172,063	66
	00o	8,170,607	147	5,654,825	542,976	2,576,880	963,735	796,640	18,705,810	4,746
	00n	884,787	237	0	413,650	37,410	131	296,613	1,632,828	5
p-Xylene	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	468,689	8,192	2,168,729	3,563	645,579	8,722	2,958,765	6,262,239	17,280
	980	125,970	395	4,670,124	7,322	2,866,722	156,678	1,861,654	9,688,865	10,987
	98n 99o	870 147,153	0 7	0 683,856	182,126 57,153	0 1,902,287	69,312	10,070 1,863,844	193,066 4,723,612	3,200 8,633
	990 99n	693	0	083,830	177,081	35,289	8,309	21,566	242,938	3,200
	00o	135,147	7	2,663,410	54,402	2,226,748	53,976	1,295,143	6,428,833	7,157
	00n	43,556	0	0	73,759	25,038	0	40,610	182,963	3,192
Xylene (mixed	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
isomers)	95	135,273,984	41,599,755	141,841,997	69,991,106	55,709,651	10,014,137	97,341,722	551,772,352	239,117
	980	101,458,533	35,401,690	140,783,137	58,417,095	64,135,326	13,689,989	71,971,925	485,857,695	178,787
	98n	29,475,714	3,616,563	730,790	85,959,498	10,113,113	8,962,909	3,806,731	142,665,318	75,735
	990	102,130,746	34,093,115	118,796,740	56,829,060	60,770,607	9,304,472	69,006,599	450,931,339	160,114
	99n 00o	30,994,604 82,950,068	603,065 40,328,957	990,581 108,403,362	53,859,120 55,321,109	10,092,041 65,392,682	11,365,761 9,239,719	838,213 59,541,202	108,743,385 421,177,098	204,107 110,079

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

No reports: No reports received for the chemical in that reporting year.

^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).



Table A-1A: TRI On-site and Off-site Releases, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

(commac	-9					On-site Releases			Off-site Releases	
CAS Number	Chemical	Year	Total Forms Number	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On- site Releases Pounds	Transfers Off-site to Disposal Pounds	Total On and Off-site Releases Pounds
87-62-7	*,** 2,6-Xylidine	88 95	2 4	337 304	1,537 0	0	0	1,874 304	0	1,874 304
		98o	2	453	0	0	0	453	0	453
		98n 99o	1	0	0	0	0	0 1	0	0
		990 99n	1	0	0	0	0	0	0	0
		00o	1	1	0	0	0	1	0	1
		00n	No reports							
7440-66-6	* Zinc	88	644	3,455,937	849,544	140,010	25,617,365	30,062,856	31,450,587	61,513,443
	(fume or dust)	95	435	2,044,750	45,183	0	6,410,739	8,500,672	9,613,624	18,114,296
		980	422	1,315,291	9,715	1	9,179,810	10,504,817	10,244,603	20,749,420
		98n	39	2,647,359	31,044	294,942	66,841,176	69,814,521	290,445	70,104,966
		99o 99n	411	1,340,488	15,545	1 0	3,922,090	5,278,124	12,064,852 182,737	17,342,976
		99n 00o	26 391	2,411,681 778,951	7,900 21,843	2	53,878,527 1,938,102	56,298,108 2,738,898	13,653,489	56,480,845 16,392,387
		000 00n	22	2,482,534	121	0	17,674,751	20,157,406	91,641	20,249,047
	Zinc compounds	88	1,668	7,266,122	1,201,410	109,555	113,361,611	121,938,698	84,392,234	206,330,932
		95	2,717	4,836,196	1,091,662	397,844	113,661,737	119,987,439	107,401,702	227,389,141
		98o	2,940	6,946,801	1,266,595	246,175	122,715,084	131,174,655	124,750,719	255,925,374
		98n	458	1,537,308	555,882	21,751,486	659,327,056	683,171,732	13,092,090	696,263,822
		99o	2,979	5,570,415	1,014,131	228,062	128,610,032	135,422,640	121,796,821	257,219,461
		99n	464	2,473,554	370,693	21,949,310	702,884,710	727,678,267	15,582,606	743,260,873
		00o	3,001	6,140,049	902,893	247,239	100,673,276	107,963,457	166,826,835	274,790,292
12122 (7.7	* 7' 1	00n	461	1,373,337	373,258	22,333,205	727,413,291	751,493,091	11,318,993	762,812,084
12122-67-7	* Zineb	88 95	2	1,250	0	0	0	1,250	2,600	3,850
		93 980	1	0 100	0	0	0	0 100	0	0 100
		98n	1	100	0	0	0	100	1	2
		990	1	10	0	0	0	10	0	10
		99n	No reports							
		00o	No reports							
		00n	No reports							
	Mixtures and other		178	3,450,870	59,460	0	18,699	3,529,029	10,662,177	14,191,206
	trade name	95	30	334,194	3,171	0	0	337,365	4,400	341,765
	products	980	47	66,604	0	0	9	66,613	86,098	152,711
		98n 99o	7 42	7,550 217,930	0	0	0 500	7,550 218,430	0 25,649	7,550 244,079
		990 99n	5	665	0	0	0	665	23,049	665
		00o	42	608	5	0	40,100	40,713	44,378	85,091
		00n	7	349	0	0	0	349	0	349
	Trade secrets	88	4	0	0	0	0	0	0	0
		95	11	0	0	0	0	0	0	0
		98o	11	30	0	0	0	30	0	30
		98n	No reports							
		990	3	0	0	0	0	0	0	0
		99n	No reports		0	0	0	0	0	^
		000	No reporte	0	0	0	0	0		0
		00n	No reports							

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release. Breakdown of Underground Injection and On-site Land Releases (for RCRA Subtitle C landfills) began in 1996 reporting year.

98o, 99o and 00o are data from original industries; 98n, 99n and 00n are data from new industries.

NR: not reportable (chemicals added to the TRI list after 1988).

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^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information)



Table A-1B: Quantities of TRI Chemicals in Waste, by Chemical, 1988, 1995 and 1998-2000 (Original and New Industries) (continued)

Chemical	Year	Recycled		Energy Recovery		Treated		Ov44	man 4 a	N D .
		On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	On-site Pounds	Off-site Pounds	Quantity Released On-and Off-site Pounds	Total Production- related Waste Managed Pounds	Non-Produc- tion-related Waste Managed Pounds
*,**2,6-Xylidine	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	8,000	0	300	258	254	8,812	0
	980	0	0	22,235	0	0	0	453	22,688	0
	98n	0	4	0	2 000	0	0	0	4	0
	99o 99n	0	0	0	2,900 4	17 0	0	1 0	2,918 4	0
	99n 00o	0	0	0	3,900	29	0	1	3,930	0
	000 00n	No reports	U	U	3,900	29	U	1	3,930	0
Zinc	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
(fume or dust) Zinc compounds	95	27,847,425	78,266,137	0	53,501	3,815,022	6,485,878	10,739,564	127,207,527	35,448
	98o	28,252,595	49,278,126	0	125,059	652,837	754,552	30,780,859	109,844,028	2,282,657
	98n	0	69,000	0	0	0	0	70,053,321	70,122,321	0
	99o	6,124,363	55,049,834	0	58,144	606,425	614,115	29,092,558	91,545,439	11
	99n	0	290,000	0	0	0	0	56,474,807	56,764,807	5
	00o	6,601,018	42,940,368	0	141,555	968,888	258,973	16,855,162	67,765,964	50
	00n	0	0	0	0	0	234	20,242,727	20,242,961	119,157
	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	130,342,228	252,528,915 271,085,763	446,100	365,736	4,040,010	26,357,552	214,108,656	628,189,197	11,143,135
	980 98n	9,211,682	1,768,477	367,541 0	266,611 4,057	4,104,167 1,549,772	12,437,106 142,033	303,013,293 696,904,604	658,091,034 709,580,625	1,357,710 48,531
	990		285,609,244	142,280	173,258	22,271,314	9,314,666	305,786,461	704,151,386	233,011,708
	99n	9,808,684	2,380,741	0	0	66,270	292,189	703,830,699	716,378,583	34,034,359
	00o		298,076,144	144,790	159,186	10,296,512	11,580,581	300,759,631	703,476,071	4,426,315
	00n	18,209,903	1,103,790	0	68,740	190,074	65,021	743,956,204	763,593,732	15,034,561
Zineb	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	0	0	0	0
	98o	0	0	0	100	0	0	100	200	0
	98n	0	0	0	0	11,715	0	2	11,717	0
	990	0	0	0	0	0	320	9	329	0
	99n	No reports								
	00o 00n	No reports								
Mixtures and other		No reports NA	NA	NA	NA	NA	NA	NA	NA	NA
trade name products		8,025	19,282	96,280,793	375,381	72,738,249	294,743	384,186	170,100,659	0
	98o	6,651,848	14,255	1,367,661	14,955	23,598	72,626	101,166	8,246,109	0
	98n	3,775,989	0	0	0	0	0	7,392	3,783,381	0
	99o	39,297	7,316	700	43,758	233,209	12,009	261,660	597,949	0
	99n	0	0	0	0	0	2,599	665	3,264	0
	00o	0	24,344	0	32,445	16,435	16,414	40,476	130,114	10
	00n	0	0	0	0	0	0	350	350	0
Trade secrets	88	NA	NA	NA	NA	NA	NA	NA	NA	NA
	95	0	0	0	0	0	0	0	0	0
	980	0 No semesta	0	0	0	2,700	0	30	2,730	0
	98n 99o	No reports 0	0	0	0	0	0	0	0	0
	990 99n	No reports	U	U	U	ľ	0	l "		
	00o	No reports	0	0	0	0	0	0	0	0

Note: Data from Section 8 (Current Year) of Form R.

NA: not applicable (waste management data not required for 1988 reporting year).

NR: not reportable (chemicals added to the TRI list after 1988).

DC: definition change (chemicals whose reporting definition has changed since 1988).

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^{*} Chemicals that are currently active ingredients in EPA's Pesticide Product Information System (all pesticide products imported and/or manufactured in the U.S.) and/or Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Active Ingredients, including Special Review, Canceled/Denied or Suspended, and Restricted Use Pesticides.

^{**} Chemicals meeting the OSHA carcinogen standard (see Appendix C for more information).